

**FEATURES:**

- RoHS compliant
- High efficiency up to 80%
- Low profile plastic package
- 7 pin SIP package
- Operating temperature -40°C to + 85°C
- Short circuit protection
- Pin compatible with multiple manufacturers
- Input / Output Isolation 1000, 3000, 4000, 5200 & 6000 VDC

### Models

#### Single output



| Model       | Input Voltage (V) | Output Voltage (V) | Output Current Max (mA) | Isolation (VDC) | Input Current Full Load   No Load (mA) |    | Max Capacitive Load(μF) | Efficiency % |
|-------------|-------------------|--------------------|-------------------------|-----------------|----------------------------------------|----|-------------------------|--------------|
| AM1D-0303SZ | 2.97-3.63         | 3.3                | 300                     | 1000            | 399                                    | 28 | 220                     | 76           |
| AM1D-0305SZ | 2.97-3.63         | 5                  | 200                     | 1000            | 389                                    | 22 | 220                     | 78           |
| AM1D-0307SZ | 2.97-3.63         | 7.2                | 140                     | 1000            | 379                                    | 22 | 220                     | 78           |
| AM1D-0309SZ | 2.97-3.63         | 9                  | 110                     | 1000            | 379                                    | 35 | 220                     | 80           |
| AM1D-0312SZ | 2.97-3.63         | 12                 | 83                      | 1000            | 389                                    | 30 | 220                     | 77           |
| AM1D-0315SZ | 2.97-3.63         | 15                 | 70                      | 1000            | 389                                    | 30 | 220                     | 78           |
| AM1D-0318SZ | 2.97-3.63         | 18                 | 55                      | 1000            | 415                                    | 30 | 220                     | 78           |
| AM1D-0324SZ | 2.97-3.63         | 24                 | 40                      | 1000            | 415                                    | 30 | 220                     | 75           |
| AM1D-0503SZ | 4.5-5.5           | 3.3                | 300                     | 1000            | 256                                    | 15 | 220                     | 74           |
| AM1D-0505SZ | 4.5-5.5           | 5                  | 200                     | 1000            | 247                                    | 17 | 220                     | 80           |
| AM1D-0507SZ | 4.5-5.5           | 7.2                | 140                     | 1000            | 247                                    | 16 | 220                     | 78           |
| AM1D-0509SZ | 4.5-5.5           | 9                  | 110                     | 1000            | 244                                    | 15 | 220                     | 75           |
| AM1D-0512SZ | 4.5-5.5           | 12                 | 83                      | 1000            | 253                                    | 17 | 220                     | 77           |
| AM1D-0515SZ | 4.5-5.5           | 15                 | 70                      | 1000            | 233                                    | 17 | 220                     | 77           |
| AM1D-0518SZ | 4.5-5.5           | 18                 | 55                      | 1000            | 241                                    | 16 | 220                     | 78           |
| AM1D-0524SZ | 4.5-5.5           | 24                 | 40                      | 1000            | 244                                    | 20 | 220                     | 75           |
| AM1D-1203SZ | 10.8-13.2         | 3.3                | 300                     | 1000            | 111                                    | 12 | 220                     | 74           |
| AM1D-1205SZ | 10.8-13.2         | 5                  | 200                     | 1000            | 105                                    | 14 | 220                     | 79           |
| AM1D-1207SZ | 10.8-13.2         | 7.2                | 140                     | 1000            | 111                                    | 14 | 220                     | 74           |
| AM1D-1209SZ | 10.8-13.2         | 9                  | 110                     | 1000            | 104                                    | 9  | 220                     | 75           |
| AM1D-1212SZ | 10.8-13.2         | 12                 | 83                      | 1000            | 105                                    | 13 | 220                     | 79           |
| AM1D-1215SZ | 10.8-13.2         | 15                 | 70                      | 1000            | 102                                    | 10 | 220                     | 79           |
| AM1D-1218SZ | 10.8-13.2         | 18                 | 55                      | 1000            | 103                                    | 11 | 220                     | 78           |
| AM1D-1224SZ | 10.8-13.2         | 24                 | 40                      | 1000            | 110                                    | 20 | 220                     | 76           |
| AM1D-1503SZ | 13.5-16.5         | 3.3                | 300                     | 1000            | 83                                     | 10 | 220                     | 81           |
| AM1D-1505SZ | 13.5-16.5         | 5                  | 200                     | 1000            | 82                                     | 7  | 220                     | 81           |
| AM1D-1507SZ | 13.5-16.5         | 7.2                | 140                     | 1000            | 85                                     | 10 | 220                     | 81           |
| AM1D-1509SZ | 13.5-16.5         | 9                  | 110                     | 1000            | 85                                     | 10 | 220                     | 80           |
| AM1D-1512SZ | 13.5-16.5         | 12                 | 83                      | 1000            | 83                                     | 8  | 220                     | 80           |
| AM1D-1515SZ | 13.5-16.5         | 15                 | 70                      | 1000            | 84                                     | 12 | 220                     | 79           |
| AM1D-1518SZ | 13.5-16.5         | 18                 | 55                      | 1000            | 83                                     | 10 | 220                     | 82           |
| AM1D-1524SZ | 13.5-16.5         | 24                 | 40                      | 1000            | 80                                     | 5  | 220                     | 76           |
| AM1D-2403SZ | 21.6-26.4         | 3.3                | 300                     | 1000            | 56                                     | 8  | 220                     | 65           |
| AM1D-2405SZ | 21.6-26.4         | 5                  | 200                     | 1000            | 54                                     | 6  | 220                     | 72           |
| AM1D-2407SZ | 21.6-26.4         | 7.2                | 140                     | 1000            | 57                                     | 6  | 220                     | 76           |
| AM1D-2409SZ | 21.6-26.4         | 9                  | 110                     | 1000            | 55                                     | 6  | 220                     | 75           |
| AM1D-2412SZ | 21.6-26.4         | 12                 | 83                      | 1000            | 53                                     | 6  | 220                     | 79           |
| AM1D-2415SZ | 21.6-26.4         | 15                 | 70                      | 1000            | 52                                     | 5  | 220                     | 79           |
| AM1D-2418SZ | 21.6-26.4         | 18                 | 55                      | 1000            | 51                                     | 5  | 220                     | 78           |
| AM1D-2424SZ | 21.6-26.4         | 24                 | 40                      | 1000            | 52                                     | 8  | 220                     | 75           |
| AM1D-4803SZ | 43.2-52.5         | 3.3                | 300                     | 1000            | 29                                     | 5  | 220                     | 65           |
| AM1D-4805SZ | 43.2-52.5         | 5                  | 200                     | 1000            | 29                                     | 5  | 220                     | 72           |
| AM1D-4807SZ | 43.2-52.5         | 7.2                | 140                     | 1000            | 28                                     | 5  | 220                     | 76           |
| AM1D-4809SZ | 43.2-52.5         | 9                  | 110                     | 1000            | 27                                     | 5  | 220                     | 75           |
| AM1D-4812SZ | 43.2-52.5         | 12                 | 83                      | 1000            | 27                                     | 5  | 220                     | 79           |
| AM1D-4815SZ | 43.2-52.5         | 15                 | 70                      | 1000            | 27                                     | 5  | 220                     | 79           |
| AM1D-4818SZ | 43.2-52.5         | 18                 | 55                      | 1000            | 28                                     | 5  | 220                     | 78           |

### Models

#### Single output (continued)

| Model          | Input Voltage (V) | Output Voltage (V) | Output Current max (mA) | Isolation (VDC) | Input Current Full Load   No Load (mA) |    | Max Capacitive Load(uF) | Efficiency % |
|----------------|-------------------|--------------------|-------------------------|-----------------|----------------------------------------|----|-------------------------|--------------|
| AM1D-4824SZ    | 43.2-52.5         | 24                 | 40                      | 1000            | 27                                     | 6  | 220                     | 75           |
| AM1D-0303SH30Z | 2.97-3.63         | 3.3                | 300                     | 3000            | 399                                    | 28 | 220                     | 76           |
| AM1D-0305SH30Z | 2.97-3.63         | 5                  | 200                     | 3000            | 389                                    | 22 | 220                     | 78           |
| AM1D-0307SH30Z | 2.97-3.63         | 7.2                | 140                     | 3000            | 379                                    | 22 | 220                     | 78           |
| AM1D-0309SH30Z | 2.97-3.63         | 9                  | 110                     | 3000            | 379                                    | 35 | 220                     | 80           |
| AM1D-0312SH30Z | 2.97-3.63         | 12                 | 83                      | 3000            | 389                                    | 30 | 220                     | 77           |
| AM1D-0315SH30Z | 2.97-3.63         | 15                 | 70                      | 3000            | 389                                    | 30 | 220                     | 78           |
| AM1D-0318SH30Z | 2.97-3.63         | 18                 | 55                      | 3000            | 415                                    | 30 | 220                     | 78           |
| AM1D-0324SH30Z | 2.97-3.63         | 24                 | 40                      | 3000            | 415                                    | 30 | 220                     | 75           |
| AM1D-0503SH30Z | 4.5-5.5           | 3.3                | 300                     | 3000            | 256                                    | 15 | 220                     | 74           |
| AM1D-0505SH30Z | 4.5-5.5           | 5                  | 200                     | 3000            | 247                                    | 17 | 220                     | 80           |
| AM1D-0507SH30Z | 4.5-5.5           | 7.2                | 140                     | 3000            | 247                                    | 16 | 220                     | 78           |
| AM1D-0509SH30Z | 4.5-5.5           | 9                  | 110                     | 3000            | 244                                    | 15 | 220                     | 75           |
| AM1D-0512SH30Z | 4.5-5.5           | 12                 | 83                      | 3000            | 253                                    | 17 | 220                     | 77           |
| AM1D-0515SH30Z | 4.5-5.5           | 15                 | 70                      | 3000            | 233                                    | 17 | 220                     | 77           |
| AM1D-0518SH30Z | 4.5-5.5           | 18                 | 55                      | 3000            | 241                                    | 16 | 220                     | 78           |
| AM1D-0524SH30Z | 4.5-5.5           | 24                 | 40                      | 3000            | 244                                    | 20 | 220                     | 75           |
| AM1D-1203SH30Z | 10.8-13.2         | 3.3                | 300                     | 3000            | 111                                    | 12 | 220                     | 74           |
| AM1D-1205SH30Z | 10.8-13.2         | 5                  | 200                     | 3000            | 105                                    | 14 | 220                     | 79           |
| AM1D-1207SH30Z | 10.8-13.2         | 7.2                | 140                     | 3000            | 111                                    | 14 | 220                     | 74           |
| AM1D-1209SH30Z | 10.8-13.2         | 9                  | 110                     | 3000            | 104                                    | 9  | 220                     | 76           |
| AM1D-1212SH30Z | 10.8-13.2         | 12                 | 83                      | 3000            | 105                                    | 13 | 220                     | 80           |
| AM1D-1215SH30Z | 10.8-13.2         | 15                 | 70                      | 3000            | 102                                    | 10 | 220                     | 80           |
| AM1D-1218SH30Z | 10.8-13.2         | 18                 | 55                      | 3000            | 103                                    | 11 | 220                     | 78           |
| AM1D-1224SH30Z | 10.8-13.2         | 24                 | 40                      | 3000            | 110                                    | 20 | 220                     | 76           |
| AM1D-1503SH30Z | 13.5-16.5         | 3.3                | 300                     | 3000            | 83                                     | 10 | 220                     | 81           |
| AM1D-1505SH30Z | 13.5-16.5         | 5                  | 200                     | 3000            | 82                                     | 7  | 220                     | 81           |
| AM1D-1507SH30Z | 13.5-16.5         | 7.2                | 140                     | 3000            | 85                                     | 10 | 220                     | 81           |
| AM1D-1509SH30Z | 13.5-16.5         | 9                  | 110                     | 3000            | 85                                     | 10 | 220                     | 80           |
| AM1D-1512SH30Z | 13.5-16.5         | 12                 | 83                      | 3000            | 83                                     | 8  | 220                     | 80           |
| AM1D-1515SH30Z | 13.5-16.5         | 15                 | 70                      | 3000            | 84                                     | 12 | 220                     | 79           |
| AM1D-1518SH30Z | 13.5-16.5         | 18                 | 55                      | 3000            | 83                                     | 10 | 220                     | 82           |
| AM1D-1524SH30Z | 13.5-16.5         | 24                 | 40                      | 3000            | 80                                     | 5  | 220                     | 76           |
| AM1D-2403SH30Z | 21.6-26.4         | 3.3                | 300                     | 3000            | 56                                     | 8  | 220                     | 74           |
| AM1D-2405SH30Z | 21.6-26.4         | 5                  | 200                     | 3000            | 54                                     | 6  | 220                     | 80           |
| AM1D-2407SH30Z | 21.6-26.4         | 7.2                | 140                     | 3000            | 57                                     | 6  | 220                     | 71           |
| AM1D-2409SH30Z | 21.6-26.4         | 9                  | 110                     | 3000            | 55                                     | 6  | 220                     | 75           |
| AM1D-2412SH30Z | 21.6-26.4         | 12                 | 83                      | 3000            | 53                                     | 6  | 220                     | 78           |
| AM1D-2415SH30Z | 21.6-26.4         | 15                 | 70                      | 3000            | 52                                     | 5  | 220                     | 78           |
| AM1D-2418SH30Z | 21.6-26.4         | 18                 | 55                      | 3000            | 51                                     | 5  | 220                     | 78           |
| AM1D-2424SH30Z | 21.6-26.4         | 24                 | 40                      | 3000            | 52                                     | 8  | 220                     | 75           |
| AM1D-4803SH30Z | 43.2-52.5         | 3.3                | 300                     | 3000            | 29                                     | 5  | 220                     | 65           |
| AM1D-4805SH30Z | 43.2-52.5         | 5                  | 200                     | 3000            | 29                                     | 5  | 220                     | 72           |
| AM1D-4807SH30Z | 43.2-52.5         | 7.2                | 140                     | 3000            | 28                                     | 5  | 220                     | 76           |
| AM1D-4809SH30Z | 43.2-52.5         | 9                  | 110                     | 3000            | 27                                     | 5  | 220                     | 75           |
| AM1D-4812SH30Z | 43.2-52.5         | 12                 | 83                      | 3000            | 27                                     | 5  | 220                     | 79           |
| AM1D-4815SH30Z | 43.2-52.5         | 15                 | 70                      | 3000            | 27                                     | 5  | 220                     | 79           |
| AM1D-4818SH30Z | 43.2-52.5         | 18                 | 55                      | 3000            | 28                                     | 5  | 220                     | 78           |
| AM1D-4824SH30Z | 43.2-52.5         | 24                 | 40                      | 3000            | 27                                     | 6  | 220                     | 75           |
| AM1D-0303SH40Z | 2.97-3.63         | 3.3                | 300                     | 4000            | 399                                    | 28 | 220                     | 76           |
| AM1D-0305SH40Z | 2.97-3.63         | 5                  | 200                     | 4000            | 389                                    | 22 | 220                     | 78           |
| AM1D-0307SH40Z | 2.97-3.63         | 7.2                | 140                     | 4000            | 379                                    | 22 | 220                     | 78           |
| AM1D-0309SH40Z | 2.97-3.63         | 9                  | 110                     | 4000            | 379                                    | 35 | 220                     | 80           |

## Models

### Single output (continued)

| Model          | Input Voltage (V) | Output Voltage (V) | Output Current max (mA) | Isolation (VDC) | Input Current Full Load   No Load (mA) |    | Max Capacitive Load(uF) | Efficiency |
|----------------|-------------------|--------------------|-------------------------|-----------------|----------------------------------------|----|-------------------------|------------|
| AM1D-0312SH40Z | 2.97-3.63         | 12                 | 83                      | 4000            | 389                                    | 30 | 220                     | 77         |
| AM1D-0315SH40Z | 2.97-3.63         | 15                 | 70                      | 4000            | 389                                    | 30 | 220                     | 78         |
| AM1D-0318SH40Z | 2.97-3.63         | 18                 | 55                      | 4000            | 415                                    | 30 | 220                     | 78         |
| AM1D-0324SH40Z | 2.97-3.63         | 24                 | 40                      | 4000            | 415                                    | 30 | 220                     | 75         |
| AM1D-0503SH40Z | 4.5-5.5           | 3.3                | 300                     | 4000            | 256                                    | 15 | 220                     | 74         |
| AM1D-0505SH40Z | 4.5-5.5           | 5                  | 200                     | 4000            | 247                                    | 17 | 220                     | 80         |
| AM1D-0507SH40Z | 4.5-5.5           | 7.2                | 140                     | 4000            | 247                                    | 16 | 220                     | 78         |
| AM1D-0509SH40Z | 4.5-5.5           | 9                  | 110                     | 4000            | 244                                    | 15 | 220                     | 75         |
| AM1D-0512SH40Z | 4.5-5.5           | 12                 | 83                      | 4000            | 253                                    | 17 | 220                     | 77         |
| AM1D-0515SH40Z | 4.5-5.5           | 15                 | 70                      | 4000            | 233                                    | 17 | 220                     | 77         |
| AM1D-0518SH40Z | 4.5-5.5           | 18                 | 55                      | 4000            | 241                                    | 16 | 220                     | 78         |
| AM1D-0524SH40Z | 4.5-5.5           | 24                 | 40                      | 4000            | 244                                    | 20 | 220                     | 75         |
| AM1D-1203SH40Z | 10.8-13.2         | 3.3                | 300                     | 4000            | 111                                    | 12 | 220                     | 74         |
| AM1D-1205SH40Z | 10.8-13.2         | 5                  | 200                     | 4000            | 105                                    | 14 | 220                     | 79         |
| AM1D-1207SH40Z | 10.8-13.2         | 7.2                | 140                     | 4000            | 111                                    | 14 | 220                     | 74         |
| AM1D-1209SH40Z | 10.8-13.2         | 9                  | 110                     | 4000            | 104                                    | 9  | 220                     | 75         |
| AM1D-1212SH40Z | 10.8-13.2         | 12                 | 83                      | 4000            | 105                                    | 13 | 220                     | 79         |
| AM1D-1215SH40Z | 10.8-13.2         | 15                 | 70                      | 4000            | 102                                    | 10 | 220                     | 79         |
| AM1D-1218SH40Z | 10.8-13.2         | 18                 | 55                      | 4000            | 103                                    | 11 | 220                     | 78         |
| AM1D-1224SH40Z | 10.8-13.2         | 24                 | 40                      | 4000            | 110                                    | 20 | 220                     | 76         |
| AM1D-1503SH40Z | 13.5-16.5         | 3.3                | 300                     | 4000            | 83                                     | 10 | 220                     | 81         |
| AM1D-1505SH40Z | 13.5-16.5         | 5                  | 200                     | 4000            | 82                                     | 7  | 220                     | 81         |
| AM1D-1507SH40Z | 13.5-16.5         | 7.2                | 140                     | 4000            | 85                                     | 10 | 220                     | 81         |
| AM1D-1509SH40Z | 13.5-16.5         | 9                  | 110                     | 4000            | 85                                     | 10 | 220                     | 80         |
| AM1D-1512SH40Z | 13.5-16.5         | 12                 | 83                      | 4000            | 83                                     | 8  | 220                     | 80         |
| AM1D-1515SH40Z | 13.5-16.5         | 15                 | 70                      | 4000            | 84                                     | 12 | 220                     | 79         |
| AM1D-1518SH40Z | 13.5-16.5         | 18                 | 55                      | 4000            | 83                                     | 10 | 220                     | 82         |
| AM1D-1524SH40Z | 13.5-16.5         | 24                 | 40                      | 4000            | 80                                     | 5  | 220                     | 76         |
| AM1D-2403SH40Z | 21.6-26.4         | 3.3                | 300                     | 4000            | 56                                     | 8  | 220                     | 65         |
| AM1D-2405SH40Z | 21.6-26.4         | 5                  | 200                     | 4000            | 54                                     | 6  | 220                     | 72         |
| AM1D-2407SH40Z | 21.6-26.4         | 7.2                | 140                     | 4000            | 57                                     | 6  | 220                     | 76         |
| AM1D-2409SH40Z | 21.6-26.4         | 9                  | 110                     | 4000            | 55                                     | 6  | 220                     | 75         |
| AM1D-2412SH40Z | 21.6-26.4         | 12                 | 83                      | 4000            | 53                                     | 6  | 220                     | 79         |
| AM1D-2415SH40Z | 21.6-26.4         | 15                 | 70                      | 4000            | 52                                     | 5  | 220                     | 79         |
| AM1D-2418SH40Z | 21.6-26.4         | 18                 | 55                      | 4000            | 51                                     | 5  | 220                     | 78         |
| AM1D-2424SH40Z | 21.6-26.4         | 24                 | 40                      | 4000            | 52                                     | 8  | 220                     | 75         |
| AM1D-4803SH40Z | 43.2-52.5         | 3.3                | 300                     | 4000            | 29                                     | 5  | 220                     | 65         |
| AM1D-4805SH40Z | 43.2-52.5         | 5                  | 200                     | 4000            | 29                                     | 5  | 220                     | 72         |
| AM1D-4807SH40Z | 43.2-52.5         | 7.2                | 140                     | 4000            | 28                                     | 5  | 220                     | 76         |
| AM1D-4809SH40Z | 43.2-52.5         | 9                  | 110                     | 4000            | 27                                     | 5  | 220                     | 75         |
| AM1D-4812SH40Z | 43.2-52.5         | 12                 | 83                      | 4000            | 27                                     | 5  | 220                     | 79         |
| AM1D-4815SH40Z | 43.2-52.5         | 15                 | 70                      | 4000            | 27                                     | 5  | 220                     | 79         |
| AM1D-4818SH40Z | 43.2-52.5         | 18                 | 55                      | 4000            | 28                                     | 5  | 220                     | 78         |
| AM1D-4824SH40Z | 43.2-52.5         | 24                 | 40                      | 4000            | 27                                     | 6  | 220                     | 75         |
| AM1D-0303SH52Z | 2.97-3.63         | 3.3                | 300                     | 5200            | 399                                    | 28 | 220                     | 76         |
| AM1D-0305SH52Z | 2.97-3.63         | 5                  | 200                     | 5200            | 389                                    | 22 | 220                     | 78         |
| AM1D-0307SH52Z | 2.97-3.63         | 7.2                | 140                     | 5200            | 379                                    | 22 | 220                     | 78         |
| AM1D-0309SH52Z | 2.97-3.63         | 9                  | 110                     | 5200            | 379                                    | 35 | 220                     | 80         |
| AM1D-0312SH52Z | 2.97-3.63         | 12                 | 83                      | 5200            | 389                                    | 30 | 220                     | 77         |
| AM1D-0315SH52Z | 2.97-3.63         | 15                 | 70                      | 5200            | 389                                    | 30 | 220                     | 78         |
| AM1D-0318SH52Z | 2.97-3.63         | 18                 | 55                      | 5200            | 415                                    | 30 | 220                     | 78         |
| AM1D-0324SH52Z | 2.97-3.63         | 24                 | 40                      | 5200            | 415                                    | 30 | 220                     | 75         |
| AM1D-0503SH52Z | 4.5-5.5           | 3.3                | 300                     | 5200            | 256                                    | 15 | 220                     | 74         |
| AM1D-0505SH52Z | 4.5-5.5           | 5                  | 200                     | 5200            | 247                                    | 17 | 220                     | 80         |

### Models

#### Single output (continued)

| Model          | Input Voltage (V) | Output Voltage (V) | Output Current Max (mA) | Isolation (VDC) | Input Current Full Load   No Load (mA) |    | Max Capacitive Load(uF) | Efficiency |
|----------------|-------------------|--------------------|-------------------------|-----------------|----------------------------------------|----|-------------------------|------------|
| AM1D-0507SH52Z | 4.5-5.5           | 7.2                | 140                     | 5200            | 247                                    | 16 | 220                     | 78         |
| AM1D-0509SH52Z | 4.5-5.5           | 9                  | 110                     | 5200            | 244                                    | 15 | 220                     | 75         |
| AM1D-0512SH52Z | 4.5-5.5           | 12                 | 83                      | 5200            | 253                                    | 17 | 220                     | 77         |
| AM1D-0515SH52Z | 4.5-5.5           | 15                 | 70                      | 5200            | 233                                    | 17 | 220                     | 77         |
| AM1D-0518SH52Z | 4.5-5.5           | 18                 | 55                      | 5200            | 241                                    | 16 | 220                     | 78         |
| AM1D-0524SH52Z | 4.5-5.5           | 24                 | 40                      | 5200            | 244                                    | 20 | 220                     | 75         |
| AM1D-1203SH52Z | 10.8-13.2         | 3.3                | 300                     | 5200            | 111                                    | 12 | 220                     | 74         |
| AM1D-1205SH52Z | 10.8-13.2         | 5                  | 200                     | 5200            | 105                                    | 14 | 220                     | 79         |
| AM1D-1207SH52Z | 10.8-13.2         | 7.2                | 140                     | 5200            | 111                                    | 14 | 220                     | 74         |
| AM1D-1209SH52Z | 10.8-13.2         | 9                  | 110                     | 5200            | 104                                    | 9  | 220                     | 76         |
| AM1D-1212SH52Z | 10.8-13.2         | 12                 | 83                      | 5200            | 105                                    | 13 | 220                     | 80         |
| AM1D-1215SH52Z | 10.8-13.2         | 15                 | 70                      | 5200            | 102                                    | 10 | 220                     | 80         |
| AM1D-1218SH52Z | 10.8-13.2         | 18                 | 55                      | 5200            | 103                                    | 11 | 220                     | 78         |
| AM1D-1224SH52Z | 10.8-13.2         | 24                 | 40                      | 5200            | 110                                    | 20 | 220                     | 76         |
| AM1D-1503SH52Z | 13.5-16.5         | 3.3                | 300                     | 5200            | 83                                     | 10 | 220                     | 81         |
| AM1D-1505SH52Z | 13.5-16.5         | 5                  | 200                     | 5200            | 82                                     | 7  | 220                     | 81         |
| AM1D-1507SH52Z | 13.5-16.5         | 7.2                | 140                     | 5200            | 85                                     | 10 | 220                     | 81         |
| AM1D-1509SH52Z | 13.5-16.5         | 9                  | 110                     | 5200            | 85                                     | 10 | 220                     | 80         |
| AM1D-1512SH52Z | 13.5-16.5         | 12                 | 83                      | 5200            | 83                                     | 8  | 220                     | 80         |
| AM1D-1515SH52Z | 13.5-16.5         | 15                 | 70                      | 5200            | 84                                     | 12 | 220                     | 79         |
| AM1D-1518SH52Z | 13.5-16.5         | 18                 | 55                      | 5200            | 83                                     | 10 | 220                     | 82         |
| AM1D-1524SH52Z | 13.5-16.5         | 24                 | 40                      | 5200            | 80                                     | 5  | 220                     | 76         |
| AM1D-2403SH52Z | 21.6-26.4         | 3.3                | 300                     | 5200            | 56                                     | 8  | 220                     | 74         |
| AM1D-2405SH52Z | 21.6-26.4         | 5                  | 200                     | 5200            | 54                                     | 6  | 220                     | 80         |
| AM1D-2407SH52Z | 21.6-26.4         | 7.2                | 140                     | 5200            | 57                                     | 6  | 220                     | 71         |
| AM1D-2409SH52Z | 21.6-26.4         | 9                  | 110                     | 5200            | 55                                     | 6  | 220                     | 75         |
| AM1D-2412SH52Z | 21.6-26.4         | 12                 | 83                      | 5200            | 53                                     | 6  | 220                     | 78         |
| AM1D-2415SH52Z | 21.6-26.4         | 15                 | 70                      | 5200            | 52                                     | 5  | 220                     | 78         |
| AM1D-2418SH52Z | 21.6-26.4         | 18                 | 55                      | 5200            | 51                                     | 5  | 220                     | 78         |
| AM1D-2424SH52Z | 21.6-26.4         | 24                 | 40                      | 5200            | 52                                     | 8  | 220                     | 75         |
| AM1D-4803SH52Z | 43.2-52.5         | 3.3                | 300                     | 5200            | 29                                     | 5  | 220                     | 65         |
| AM1D-4805SH52Z | 43.2-52.5         | 5                  | 200                     | 5200            | 29                                     | 5  | 220                     | 72         |
| AM1D-4807SH52Z | 43.2-52.5         | 7.2                | 140                     | 5200            | 28                                     | 5  | 220                     | 76         |
| AM1D-4809SH52Z | 43.2-52.5         | 9                  | 110                     | 5200            | 27                                     | 5  | 220                     | 75         |
| AM1D-4812SH52Z | 43.2-52.5         | 12                 | 83                      | 5200            | 27                                     | 5  | 220                     | 79         |
| AM1D-4815SH52Z | 43.2-52.5         | 15                 | 70                      | 5200            | 27                                     | 5  | 220                     | 79         |
| AM1D-4818SH52Z | 43.2-52.5         | 18                 | 55                      | 5200            | 28                                     | 5  | 220                     | 78         |
| AM1D-4824SH52Z | 43.2-52.5         | 24                 | 40                      | 5200            | 27                                     | 6  | 220                     | 75         |
|                |                   |                    |                         |                 |                                        |    |                         |            |
| AM1D-0303SH60Z | 2.97-3.63         | 3.3                | 300                     | 6000            | 399                                    | 28 | 220                     | 76         |
| AM1D-0305SH60Z | 2.97-3.63         | 5                  | 200                     | 6000            | 389                                    | 22 | 220                     | 78         |
| AM1D-0307SH60Z | 2.97-3.63         | 7.2                | 140                     | 6000            | 379                                    | 22 | 220                     | 78         |
| AM1D-0309SH60Z | 2.97-3.63         | 9                  | 110                     | 6000            | 379                                    | 35 | 220                     | 80         |
| AM1D-0312SH60Z | 2.97-3.63         | 12                 | 83                      | 6000            | 389                                    | 30 | 220                     | 77         |
| AM1D-0315SH60Z | 2.97-3.63         | 15                 | 70                      | 6000            | 389                                    | 30 | 220                     | 78         |
| AM1D-0318SH60Z | 2.97-3.63         | 18                 | 55                      | 6000            | 415                                    | 30 | 220                     | 78         |
| AM1D-0324SH60Z | 2.97-3.63         | 24                 | 40                      | 6000            | 415                                    | 30 | 220                     | 75         |
| AM1D-0503SH60Z | 4.5-5.5           | 3.3                | 300                     | 6000            | 256                                    | 15 | 220                     | 74         |
| AM1D-0505SH60Z | 4.5-5.5           | 5                  | 200                     | 6000            | 247                                    | 17 | 220                     | 80         |
| AM1D-0507SH60Z | 4.5-5.5           | 7.2                | 140                     | 6000            | 247                                    | 16 | 220                     | 78         |
| AM1D-0509SH60Z | 4.5-5.5           | 9                  | 110                     | 6000            | 244                                    | 15 | 220                     | 75         |
| AM1D-0512SH60Z | 4.5-5.5           | 12                 | 83                      | 6000            | 253                                    | 17 | 220                     | 77         |
| AM1D-0515SH60Z | 4.5-5.5           | 15                 | 70                      | 6000            | 233                                    | 17 | 220                     | 77         |
| AM1D-0518SH60Z | 4.5-5.5           | 18                 | 55                      | 6000            | 241                                    | 16 | 220                     | 78         |

## Models

### Single output (continued)

| Model          | Input Voltage (V) | Output Voltage (V) | Output Current Max (mA) | Isolation (VDC) | Input Current Full Load   No Load (mA) |    | Max Capacitive Load(uF) | Efficiency |
|----------------|-------------------|--------------------|-------------------------|-----------------|----------------------------------------|----|-------------------------|------------|
| AM1D-0524SH60Z | 4.5-5.5           | 24                 | 40                      | 6000            | 244                                    | 20 | 220                     | 75         |
| AM1D-1203SH60Z | 10.8-13.2         | 3.3                | 300                     | 6000            | 111                                    | 12 | 220                     | 74         |
| AM1D-1205SH60Z | 10.8-13.2         | 5                  | 200                     | 6000            | 105                                    | 14 | 220                     | 79         |
| AM1D-1207SH60Z | 10.8-13.2         | 7.2                | 140                     | 6000            | 111                                    | 14 | 220                     | 74         |
| AM1D-1209SH60Z | 10.8-13.2         | 9                  | 110                     | 6000            | 104                                    | 9  | 220                     | 76         |
| AM1D-1212SH60Z | 10.8-13.2         | 12                 | 83                      | 6000            | 105                                    | 13 | 220                     | 80         |
| AM1D-1215SH60Z | 10.8-13.2         | 15                 | 70                      | 6000            | 102                                    | 10 | 220                     | 80         |
| AM1D-1218SH60Z | 10.8-13.2         | 18                 | 55                      | 6000            | 103                                    | 11 | 220                     | 78         |
| AM1D-1224SH60Z | 10.8-13.2         | 24                 | 40                      | 6000            | 110                                    | 20 | 220                     | 76         |
| AM1D-1503SH60Z | 13.5-16.5         | 3.3                | 300                     | 6000            | 83                                     | 10 | 220                     | 81         |
| AM1D-1505SH60Z | 13.5-16.5         | 5                  | 200                     | 6000            | 82                                     | 7  | 220                     | 81         |
| AM1D-1507SH60Z | 13.5-16.5         | 7.2                | 140                     | 6000            | 85                                     | 10 | 220                     | 81         |
| AM1D-1509SH60Z | 13.5-16.5         | 9                  | 110                     | 6000            | 85                                     | 10 | 220                     | 80         |
| AM1D-1512SH60Z | 13.5-16.5         | 12                 | 83                      | 6000            | 83                                     | 8  | 220                     | 80         |
| AM1D-1515SH60Z | 13.5-16.5         | 15                 | 70                      | 6000            | 84                                     | 12 | 220                     | 79         |
| AM1D-1518SH60Z | 13.5-16.5         | 18                 | 55                      | 6000            | 83                                     | 10 | 220                     | 82         |
| AM1D-1524SH60Z | 13.5-16.5         | 24                 | 40                      | 6000            | 80                                     | 5  | 220                     | 76         |
| AM1D-2403SH60Z | 21.6-26.4         | 3.3                | 300                     | 6000            | 56                                     | 8  | 220                     | 74         |
| AM1D-2405SH60Z | 21.6-26.4         | 5                  | 200                     | 6000            | 54                                     | 6  | 220                     | 80         |
| AM1D-2407SH60Z | 21.6-26.4         | 7.2                | 140                     | 6000            | 57                                     | 6  | 220                     | 71         |
| AM1D-2409SH60Z | 21.6-26.4         | 9                  | 110                     | 6000            | 55                                     | 6  | 220                     | 75         |
| AM1D-2412SH60Z | 21.6-26.4         | 12                 | 83                      | 6000            | 53                                     | 6  | 220                     | 78         |
| AM1D-2415SH60Z | 21.6-26.4         | 15                 | 70                      | 6000            | 52                                     | 5  | 220                     | 78         |
| AM1D-2418SH60Z | 21.6-26.4         | 18                 | 55                      | 6000            | 51                                     | 5  | 220                     | 78         |
| AM1D-2424SH60Z | 21.6-26.4         | 24                 | 40                      | 6000            | 52                                     | 8  | 220                     | 75         |
| AM1D-4803SH60Z | 43.2-52.5         | 3.3                | 300                     | 6000            | 29                                     | 5  | 220                     | 65         |
| AM1D-4805SH60Z | 43.2-52.5         | 5                  | 200                     | 6000            | 29                                     | 5  | 220                     | 72         |
| AM1D-4807SH60Z | 43.2-52.5         | 7.2                | 140                     | 6000            | 28                                     | 5  | 220                     | 76         |
| AM1D-4809SH60Z | 43.2-52.5         | 9                  | 110                     | 6000            | 27                                     | 5  | 220                     | 75         |
| AM1D-4812SH60Z | 43.2-52.5         | 12                 | 83                      | 6000            | 27                                     | 5  | 220                     | 79         |
| AM1D-4815SH60Z | 43.2-52.5         | 15                 | 70                      | 6000            | 27                                     | 5  | 220                     | 79         |
| AM1D-4818SH60Z | 43.2-52.5         | 18                 | 55                      | 6000            | 28                                     | 5  | 220                     | 78         |
| AM1D-4824SH60Z | 43.2-52.5         | 24                 | 40                      | 6000            | 27                                     | 6  | 220                     | 75         |

## Models

### Dual output

| Model       | Input Voltage (V) | Output Voltage (V) | Output Current Max (mA) | Isolation (VDC) | Input Current Full Load   No Load (mA) |    | Max Capacitive Load (uF) | Efficiency (%) |
|-------------|-------------------|--------------------|-------------------------|-----------------|----------------------------------------|----|--------------------------|----------------|
| AM1D-0303DZ | 2.97-3.63         | ±3.3               | ±150                    | 1000            | 399                                    | 28 | ±100                     | 66             |
| AM1D-0305DZ | 2.97-3.63         | ±5                 | ±100                    | 1000            | 389                                    | 22 | ±100                     | 70             |
| AM1D-0307DZ | 2.97-3.63         | ±7.2               | ±70                     | 1000            | 379                                    | 22 | ±100                     | 74             |
| AM1D-0309DZ | 2.97-3.63         | ±9                 | ±55                     | 1000            | 379                                    | 35 | ±100                     | 75             |
| AM1D-0312DZ | 2.97-3.63         | ±12                | ±42                     | 1000            | 389                                    | 30 | ±100                     | 76             |
| AM1D-0315DZ | 2.97-3.63         | ±15                | ±35                     | 1000            | 389                                    | 30 | ±100                     | 78             |
| AM1D-0318DZ | 2.97-3.63         | ±18                | ±27                     | 1000            | 415                                    | 30 | ±100                     | 80             |
| AM1D-0324DZ | 2.97-3.63         | ±24                | ±20                     | 1000            | 415                                    | 30 | ±100                     | 78             |
| AM1D-0503DZ | 4.5-5.5           | ±3.3               | ±150                    | 1000            | 256                                    | 15 | ±100                     | 72             |
| AM1D-0505DZ | 4.5-5.5           | ±5                 | ±100                    | 1000            | 247                                    | 17 | ±100                     | 75             |
| AM1D-0507DZ | 4.5-5.5           | ±7.2               | ±70                     | 1000            | 247                                    | 16 | ±100                     | 76             |
| AM1D-0509DZ | 4.5-5.5           | ±9                 | ±55                     | 1000            | 244                                    | 15 | ±100                     | 80             |
| AM1D-0512DZ | 4.5-5.5           | ±12                | ±42                     | 1000            | 253                                    | 17 | ±100                     | 80             |

### Models

#### Dual output (continued)

| Model          | Input Voltage (V) | Output Voltage (V) | Output Current Max (mA) | Isolation (VDC) | Input Current Full Load   No Load (mA) |    | Max Capacitive Load (uF) | Efficiency (%) |
|----------------|-------------------|--------------------|-------------------------|-----------------|----------------------------------------|----|--------------------------|----------------|
| AM1D-0515DZ    | 4.5-5.5           | ±15                | ±35                     | 1000            | 233                                    | 17 | ±100                     | 79             |
| AM1D-0518DZ    | 4.5-5.5           | ±18                | ±27                     | 1000            | 241                                    | 16 | ±100                     | 76             |
| AM1D-0524DZ    | 4.5-5.5           | ±24                | ±20                     | 1000            | 244                                    | 20 | ±100                     | 65             |
| AM1D-1203DZ    | 10.8-13.2         | ±3.3               | ±150                    | 1000            | 111                                    | 12 | ±100                     | 72             |
| AM1D-1205DZ    | 10.8-13.2         | ±5                 | ±100                    | 1000            | 105                                    | 14 | ±100                     | 76             |
| AM1D-1207DZ    | 10.8-13.2         | ±7.2               | ±70                     | 1000            | 111                                    | 14 | ±100                     | 75             |
| AM1D-1209DZ    | 10.8-13.2         | ±9                 | ±55                     | 1000            | 104                                    | 9  | ±100                     | 79             |
| AM1D-1212DZ    | 10.8-13.2         | ±12                | ±42                     | 1000            | 105                                    | 13 | ±100                     | 79             |
| AM1D-1215DZ    | 10.8-13.2         | ±15                | ±35                     | 1000            | 102                                    | 10 | ±100                     | 78             |
| AM1D-1218DZ    | 10.8-13.2         | ±18                | ±27                     | 1000            | 103                                    | 11 | ±100                     | 75             |
| AM1D-1224DZ    | 10.8-13.2         | ±24                | ±20                     | 1000            | 110                                    | 20 | ±100                     | 68             |
| AM1D-1503DZ    | 13.5-16.5         | ±3.3               | ±150                    | 1000            | 83                                     | 10 | ±100                     | 74             |
| AM1D-1505DZ    | 13.5-16.5         | ±5                 | ±100                    | 1000            | 82                                     | 7  | ±100                     | 75             |
| AM1D-1507DZ    | 13.5-16.5         | ±7.2               | ±70                     | 1000            | 85                                     | 10 | ±100                     | 75             |
| AM1D-1509DZ    | 13.5-16.5         | ±9                 | ±55                     | 1000            | 85                                     | 10 | ±100                     | 76             |
| AM1D-1512DZ    | 13.5-16.5         | ±12                | ±42                     | 1000            | 83                                     | 8  | ±100                     | 77             |
| AM1D-1515DZ    | 13.5-16.5         | ±15                | ±35                     | 1000            | 84                                     | 12 | ±100                     | 77             |
| AM1D-1518DZ    | 13.5-16.5         | ±18                | ±27                     | 1000            | 83                                     | 10 | ±100                     | 77             |
| AM1D-1524DZ    | 13.5-16.5         | ±24                | ±20                     | 1000            | 80                                     | 5  | ±100                     | 78             |
| AM1D-2403DZ    | 21.6-26.4         | ±3.3               | ±150                    | 1000            | 56                                     | 8  | ±100                     | 72             |
| AM1D-2405DZ    | 21.6-26.4         | ±5                 | ±100                    | 1000            | 54                                     | 6  | ±100                     | 76             |
| AM1D-2407DZ    | 21.6-26.4         | ±7.2               | ±70                     | 1000            | 57                                     | 6  | ±100                     | 74             |
| AM1D-2409DZ    | 21.6-26.4         | ±9                 | ±55                     | 1000            | 55                                     | 6  | ±100                     | 78             |
| AM1D-2412DZ    | 21.6-26.4         | ±12                | ±42                     | 1000            | 53                                     | 6  | ±100                     | 78             |
| AM1D-2415DZ    | 21.6-26.4         | ±15                | ±35                     | 1000            | 52                                     | 5  | ±100                     | 77             |
| AM1D-2418DZ    | 21.6-26.4         | ±18                | ±27                     | 1000            | 51                                     | 5  | ±100                     | 74             |
| AM1D-2424DZ    | 21.6-26.4         | ±24                | ±20                     | 1000            | 52                                     | 8  | ±100                     | 65             |
| AM1D-4803DZ    | 43.2-52.5         | ±3.3               | ±150                    | 1000            | 29                                     | 5  | ±100                     | 72             |
| AM1D-4805DZ    | 43.2-52.5         | ±5                 | ±100                    | 1000            | 29                                     | 5  | ±100                     | 76             |
| AM1D-4807DZ    | 43.2-52.5         | ±7.2               | ±70                     | 1000            | 28                                     | 5  | ±100                     | 74             |
| AM1D-4809DZ    | 43.2-52.5         | ±9                 | ±55                     | 1000            | 27                                     | 5  | ±100                     | 78             |
| AM1D-4812DZ    | 43.2-52.5         | ±12                | ±42                     | 1000            | 27                                     | 5  | ±100                     | 78             |
| AM1D-4815DZ    | 43.2-52.5         | ±15                | ±35                     | 1000            | 27                                     | 5  | ±100                     | 77             |
| AM1D-4818DZ    | 43.2-52.5         | ±18                | ±27                     | 1000            | 28                                     | 5  | ±100                     | 74             |
| AM1D-4824DZ    | 43.2-52.5         | ±24                | ±20                     | 1000            | 27                                     | 6  | ±100                     | 65             |
| AM1D-0303DH30Z | 2.97-3.63         | ±3.3               | ±150                    | 3000            | 399                                    | 28 | ±100                     | 66             |
| AM1D-0305DH30Z | 2.97-3.63         | ±5                 | ±100                    | 3000            | 389                                    | 22 | ±100                     | 70             |
| AM1D-0307DH30Z | 2.97-3.63         | ±7.2               | ±70                     | 3000            | 379                                    | 22 | ±100                     | 74             |
| AM1D-0309DH30Z | 2.97-3.63         | ±9                 | ±55                     | 3000            | 379                                    | 35 | ±100                     | 75             |
| AM1D-0312DH30Z | 2.97-3.63         | ±12                | ±42                     | 3000            | 389                                    | 30 | ±100                     | 76             |
| AM1D-0315DH30Z | 2.97-3.63         | ±15                | ±35                     | 3000            | 389                                    | 30 | ±100                     | 78             |
| AM1D-0318DH30Z | 2.97-3.63         | ±18                | ±27                     | 3000            | 415                                    | 30 | ±100                     | 80             |
| AM1D-0324DH30Z | 2.97-3.63         | ±24                | ±20                     | 3000            | 415                                    | 30 | ±100                     | 78             |
| AM1D-0503DH30Z | 4.5-5.5           | ±3.3               | ±150                    | 3000            | 256                                    | 15 | ±100                     | 72             |
| AM1D-0505DH30Z | 4.5-5.5           | ±5                 | ±100                    | 3000            | 247                                    | 17 | ±100                     | 75             |
| AM1D-0507DH30Z | 4.5-5.5           | ±7.2               | ±70                     | 3000            | 247                                    | 16 | ±100                     | 76             |
| AM1D-0509DH30Z | 4.5-5.5           | ±9                 | ±55                     | 3000            | 244                                    | 15 | ±100                     | 80             |
| AM1D-0512DH30Z | 4.5-5.5           | ±12                | ±42                     | 3000            | 253                                    | 17 | ±100                     | 80             |
| AM1D-0515DH30Z | 4.5-5.5           | ±15                | ±35                     | 3000            | 233                                    | 17 | ±100                     | 79             |
| AM1D-0518DH30Z | 4.5-5.5           | ±18                | ±27                     | 3000            | 241                                    | 16 | ±100                     | 76             |
| AM1D-0524DH30Z | 4.5-5.5           | ±24                | ±20                     | 3000            | 244                                    | 20 | ±100                     | 65             |
| AM1D-1203DH30Z | 10.8-13.2         | ±3.3               | ±150                    | 3000            | 111                                    | 12 | ±100                     | 72             |
| AM1D-1205DH30Z | 10.8-13.2         | ±5                 | ±100                    | 3000            | 105                                    | 14 | ±100                     | 76             |
| AM1D-1207DH30Z | 10.8-13.2         | ±7.2               | ±70                     | 3000            | 111                                    | 14 | ±100                     | 75             |

## Models

### Dual output (continued)

| Model          | Input Voltage (V) | Output Voltage (V) | Output Current Max (mA) | Isolation (VDC) | Input Current Full Load   No Load (mA) |    | Max Capacitive Load (uF) | Efficiency (%) |
|----------------|-------------------|--------------------|-------------------------|-----------------|----------------------------------------|----|--------------------------|----------------|
| AM1D-1209DH30Z | 10.8-13.2         | ±9                 | ±55                     | 3000            | 104                                    | 9  | ±100                     | 79             |
| AM1D-1212DH30Z | 10.8-13.2         | ±12                | ±42                     | 3000            | 105                                    | 13 | ±100                     | 72             |
| AM1D-1215DH30Z | 10.8-13.2         | ±15                | ±35                     | 3000            | 102                                    | 10 | ±100                     | 75             |
| AM1D-1218DH30Z | 10.8-13.2         | ±18                | ±27                     | 3000            | 103                                    | 11 | ±100                     | 76             |
| AM1D-1224DH30Z | 10.8-13.2         | ±24                | ±20                     | 3000            | 110                                    | 20 | ±100                     | 80             |
| AM1D-1503DH30Z | 13.5-16.5         | ±3.3               | ±150                    | 3000            | 83                                     | 10 | ±100                     | 74             |
| AM1D-1505DH30Z | 13.5-16.5         | ±5                 | ±100                    | 3000            | 82                                     | 7  | ±100                     | 75             |
| AM1D-1507DH30Z | 13.5-16.5         | ±7.2               | ±70                     | 3000            | 85                                     | 10 | ±100                     | 75             |
| AM1D-1509DH30Z | 13.5-16.5         | ±9                 | ±55                     | 3000            | 85                                     | 10 | ±100                     | 76             |
| AM1D-1512DH30Z | 13.5-16.5         | ±12                | ±42                     | 3000            | 83                                     | 8  | ±100                     | 77             |
| AM1D-1515DH30Z | 13.5-16.5         | ±15                | ±35                     | 3000            | 84                                     | 12 | ±100                     | 77             |
| AM1D-1518DH30Z | 13.5-16.5         | ±18                | ±27                     | 3000            | 83                                     | 10 | ±100                     | 77             |
| AM1D-1524DH30Z | 13.5-16.5         | ±24                | ±20                     | 3000            | 80                                     | 5  | ±100                     | 78             |
| AM1D-2403DH30Z | 21.6-26.4         | ±3.3               | ±150                    | 3000            | 56                                     | 8  | ±100                     | 80             |
| AM1D-2405DH30Z | 21.6-26.4         | ±5                 | ±100                    | 3000            | 54                                     | 6  | ±100                     | 79             |
| AM1D-2407DH30Z | 21.6-26.4         | ±7.2               | ±70                     | 3000            | 57                                     | 6  | ±100                     | 76             |
| AM1D-2409DH30Z | 21.6-26.4         | ±9                 | ±55                     | 3000            | 55                                     | 6  | ±100                     | 65             |
| AM1D-2412DH30Z | 21.6-26.4         | ±12                | ±42                     | 3000            | 53                                     | 6  | ±100                     | 72             |
| AM1D-2415DH30Z | 21.6-26.4         | ±15                | ±35                     | 3000            | 52                                     | 5  | ±100                     | 76             |
| AM1D-2418DH30Z | 21.6-26.4         | ±18                | ±27                     | 3000            | 51                                     | 5  | ±100                     | 75             |
| AM1D-2424DH30Z | 21.6-26.4         | ±24                | ±20                     | 3000            | 52                                     | 8  | ±100                     | 79             |
| AM1D-4803DH30Z | 43.2-52.5         | ±3.3               | ±150                    | 3000            | 29                                     | 5  | ±100                     | 72             |
| AM1D-4805DH30Z | 43.2-52.5         | ±5                 | ±100                    | 3000            | 29                                     | 5  | ±100                     | 76             |
| AM1D-4807DH30Z | 43.2-52.5         | ±7.2               | ±70                     | 3000            | 28                                     | 5  | ±100                     | 74             |
| AM1D-4809DH30Z | 43.2-52.5         | ±9                 | ±55                     | 3000            | 27                                     | 5  | ±100                     | 78             |
| AM1D-4812DH30Z | 43.2-52.5         | ±12                | ±42                     | 3000            | 27                                     | 5  | ±100                     | 78             |
| AM1D-4815DH30Z | 43.2-52.5         | ±15                | ±35                     | 3000            | 27                                     | 5  | ±100                     | 77             |
| AM1D-4818DH30Z | 43.2-52.5         | ±18                | ±27                     | 3000            | 28                                     | 5  | ±100                     | 74             |
| AM1D-4824DH30Z | 43.2-52.5         | ±24                | ±20                     | 3000            | 27                                     | 6  | ±100                     | 65             |
| AM1D-0303DH40Z | 2.97-3.63         | ±3.3               | ±150                    | 4000            | 399                                    | 28 | ±100                     | 66             |
| AM1D-0305DH40Z | 2.97-3.63         | ±5                 | ±100                    | 4000            | 389                                    | 22 | ±100                     | 70             |
| AM1D-0307DH40Z | 2.97-3.63         | ±7.2               | ±70                     | 4000            | 379                                    | 22 | ±100                     | 74             |
| AM1D-0309DH40Z | 2.97-3.63         | ±9                 | ±55                     | 4000            | 379                                    | 35 | ±100                     | 75             |
| AM1D-0312DH40Z | 2.97-3.63         | ±12                | ±42                     | 4000            | 389                                    | 30 | ±100                     | 76             |
| AM1D-0315DH40Z | 2.97-3.63         | ±15                | ±35                     | 4000            | 389                                    | 30 | ±100                     | 78             |
| AM1D-0318DH40Z | 2.97-3.63         | ±18                | ±27                     | 4000            | 415                                    | 30 | ±100                     | 80             |
| AM1D-0324DH40Z | 2.97-3.63         | ±24                | ±20                     | 4000            | 415                                    | 30 | ±100                     | 78             |
| AM1D-0503DH40Z | 4.5-5.5           | ±3.3               | ±150                    | 4000            | 256                                    | 15 | ±100                     | 79             |
| AM1D-0505DH40Z | 4.5-5.5           | ±5                 | ±100                    | 4000            | 247                                    | 17 | ±100                     | 78             |
| AM1D-0507DH40Z | 4.5-5.5           | ±7.2               | ±70                     | 4000            | 247                                    | 16 | ±100                     | 75             |
| AM1D-0509DH40Z | 4.5-5.5           | ±9                 | ±55                     | 4000            | 244                                    | 15 | ±100                     | 68             |
| AM1D-0512DH40Z | 4.5-5.5           | ±12                | ±42                     | 4000            | 253                                    | 17 | ±100                     | 72             |
| AM1D-0515DH40Z | 4.5-5.5           | ±15                | ±35                     | 4000            | 233                                    | 17 | ±100                     | 76             |
| AM1D-0518DH40Z | 4.5-5.5           | ±18                | ±27                     | 4000            | 241                                    | 16 | ±100                     | 74             |
| AM1D-0524DH40Z | 4.5-5.5           | ±24                | ±20                     | 4000            | 244                                    | 20 | ±100                     | 78             |
| AM1D-1203DH40Z | 10.8-13.2         | ±3.3               | ±150                    | 4000            | 111                                    | 12 | ±100                     | 78             |
| AM1D-1205DH40Z | 10.8-13.2         | ±5                 | ±100                    | 4000            | 105                                    | 14 | ±100                     | 77             |
| AM1D-1207DH40Z | 10.8-13.2         | ±7.2               | ±70                     | 4000            | 111                                    | 14 | ±100                     | 74             |
| AM1D-1209DH40Z | 10.8-13.2         | ±9                 | ±55                     | 4000            | 104                                    | 9  | ±100                     | 65             |
| AM1D-1212DH40Z | 10.8-13.2         | ±12                | ±42                     | 4000            | 105                                    | 13 | ±100                     | 72             |
| AM1D-1215DH40Z | 10.8-13.2         | ±15                | ±35                     | 4000            | 102                                    | 10 | ±100                     | 75             |
| AM1D-1218DH40Z | 10.8-13.2         | ±18                | ±27                     | 4000            | 103                                    | 11 | ±100                     | 76             |
| AM1D-1224DH40Z | 10.8-13.2         | ±24                | ±20                     | 4000            | 110                                    | 20 | ±100                     | 80             |

## Models

### Dual output (continued)

| Model          | Input Voltage (V) | Output Voltage (V) | Output Current Max (mA) | Isolation (VDC) | Input Current Full Load   No Load (mA) |    | Max Capacitive Load (uF) | Efficiency (%) |
|----------------|-------------------|--------------------|-------------------------|-----------------|----------------------------------------|----|--------------------------|----------------|
| AM1D-1503DH40Z | 13.5-16.5         | ±3.3               | ±150                    | 4000            | 83                                     | 10 | ±100                     | 74             |
| AM1D-1505DH40Z | 13.5-16.5         | ±5                 | ±100                    | 4000            | 82                                     | 7  | ±100                     | 75             |
| AM1D-1507DH40Z | 13.5-16.5         | ±7.2               | ±70                     | 4000            | 85                                     | 10 | ±100                     | 75             |
| AM1D-1509DH40Z | 13.5-16.5         | ±9                 | ±55                     | 4000            | 85                                     | 10 | ±100                     | 76             |
| AM1D-1512DH40Z | 13.5-16.5         | ±12                | ±42                     | 4000            | 83                                     | 8  | ±100                     | 77             |
| AM1D-1515DH40Z | 13.5-16.5         | ±15                | ±35                     | 4000            | 84                                     | 12 | ±100                     | 77             |
| AM1D-1518DH40Z | 13.5-16.5         | ±18                | ±27                     | 4000            | 83                                     | 10 | ±100                     | 77             |
| AM1D-1524DH40Z | 13.5-16.5         | ±24                | ±20                     | 4000            | 80                                     | 5  | ±100                     | 78             |
| AM1D-2403DH40Z | 21.6-26.4         | ±3.3               | ±150                    | 4000            | 56                                     | 8  | ±100                     | 80             |
| AM1D-2405DH40Z | 21.6-26.4         | ±5                 | ±100                    | 4000            | 54                                     | 6  | ±100                     | 79             |
| AM1D-2407DH40Z | 21.6-26.4         | ±7.2               | ±70                     | 4000            | 57                                     | 6  | ±100                     | 76             |
| AM1D-2409DH40Z | 21.6-26.4         | ±9                 | ±55                     | 4000            | 55                                     | 6  | ±100                     | 65             |
| AM1D-2412DH40Z | 21.6-26.4         | ±12                | ±42                     | 4000            | 53                                     | 6  | ±100                     | 72             |
| AM1D-2415DH40Z | 21.6-26.4         | ±15                | ±35                     | 4000            | 52                                     | 5  | ±100                     | 76             |
| AM1D-2418DH40Z | 21.6-26.4         | ±18                | ±27                     | 4000            | 51                                     | 5  | ±100                     | 75             |
| AM1D-2424DH40Z | 21.6-26.4         | ±24                | ±20                     | 4000            | 52                                     | 8  | ±100                     | 79             |
| AM1D-4803DH40Z | 43.2-52.5         | ±3.3               | ±150                    | 4000            | 29                                     | 5  | ±100                     | 72             |
| AM1D-4805DH40Z | 43.2-52.5         | ±5                 | ±100                    | 4000            | 29                                     | 5  | ±100                     | 76             |
| AM1D-4807DH40Z | 43.2-52.5         | ±7.2               | ±70                     | 4000            | 28                                     | 5  | ±100                     | 74             |
| AM1D-4809DH40Z | 43.2-52.5         | ±9                 | ±55                     | 4000            | 27                                     | 5  | ±100                     | 78             |
| AM1D-4812DH40Z | 43.2-52.5         | ±12                | ±42                     | 4000            | 27                                     | 5  | ±100                     | 78             |
| AM1D-4815DH40Z | 43.2-52.5         | ±15                | ±35                     | 4000            | 27                                     | 5  | ±100                     | 77             |
| AM1D-4818DH40Z | 43.2-52.5         | ±18                | ±27                     | 4000            | 28                                     | 5  | ±100                     | 74             |
| AM1D-4824DH40Z | 43.2-52.5         | ±24                | ±20                     | 4000            | 27                                     | 6  | ±100                     | 65             |
| AM1D-0303DH52Z | 2.97-3.63         | ±3.3               | ±150                    | 5200            | 399                                    | 28 | ±100                     | 66             |
| AM1D-0305DH52Z | 2.97-3.63         | ±5                 | ±100                    | 5200            | 389                                    | 22 | ±100                     | 70             |
| AM1D-0307DH52Z | 2.97-3.63         | ±7.2               | ±70                     | 5200            | 379                                    | 22 | ±100                     | 74             |
| AM1D-0309DH52Z | 2.97-3.63         | ±9                 | ±55                     | 5200            | 379                                    | 35 | ±100                     | 75             |
| AM1D-0312DH52Z | 2.97-3.63         | ±12                | ±42                     | 5200            | 389                                    | 30 | ±100                     | 76             |
| AM1D-0315DH52Z | 2.97-3.63         | ±15                | ±35                     | 5200            | 389                                    | 30 | ±100                     | 78             |
| AM1D-0318DH52Z | 2.97-3.63         | ±18                | ±27                     | 5200            | 415                                    | 30 | ±100                     | 80             |
| AM1D-0324DH52Z | 2.97-3.63         | ±24                | ±20                     | 5200            | 415                                    | 30 | ±100                     | 78             |
| AM1D-0503DH52Z | 4.5-5.5           | ±3.3               | ±150                    | 5200            | 256                                    | 15 | ±100                     | 65             |
| AM1D-0505DH52Z | 4.5-5.5           | ±5                 | ±100                    | 5200            | 247                                    | 17 | ±100                     | 72             |
| AM1D-0507DH52Z | 4.5-5.5           | ±7.2               | ±70                     | 5200            | 247                                    | 16 | ±100                     | 68             |
| AM1D-0509DH52Z | 4.5-5.5           | ±9                 | ±55                     | 5200            | 244                                    | 15 | ±100                     | 76             |
| AM1D-0512DH52Z | 4.5-5.5           | ±12                | ±42                     | 5200            | 253                                    | 17 | ±100                     | 80             |
| AM1D-0515DH52Z | 4.5-5.5           | ±15                | ±35                     | 5200            | 233                                    | 17 | ±100                     | 80             |
| AM1D-0518DH52Z | 4.5-5.5           | ±18                | ±27                     | 5200            | 241                                    | 16 | ±100                     | 68             |
| AM1D-0524DH52Z | 4.5-5.5           | ±24                | ±20                     | 5200            | 244                                    | 20 | ±100                     | 76             |
| AM1D-1203DH52Z | 10.8-13.2         | ±3.3               | ±150                    | 5200            | 111                                    | 12 | ±100                     | 65             |
| AM1D-1205DH52Z | 10.8-13.2         | ±5                 | ±100                    | 5200            | 105                                    | 14 | ±100                     | 72             |
| AM1D-1207DH52Z | 10.8-13.2         | ±7.2               | ±70                     | 5200            | 111                                    | 14 | ±100                     | 75             |
| AM1D-1209DH52Z | 10.8-13.2         | ±9                 | ±55                     | 5200            | 104                                    | 9  | ±100                     | 75             |
| AM1D-1212DH52Z | 10.8-13.2         | ±12                | ±42                     | 5200            | 105                                    | 13 | ±100                     | 79             |
| AM1D-1215DH52Z | 10.8-13.2         | ±15                | ±35                     | 5200            | 102                                    | 10 | ±100                     | 79             |
| AM1D-1218DH52Z | 10.8-13.2         | ±18                | ±27                     | 5200            | 103                                    | 11 | ±100                     | 75             |
| AM1D-1224DH52Z | 10.8-13.2         | ±24                | ±20                     | 5200            | 110                                    | 20 | ±100                     | 75             |
| AM1D-1503DH52Z | 13.5-16.5         | ±3.3               | ±150                    | 5200            | 83                                     | 10 | ±100                     | 74             |
| AM1D-1505DH52Z | 13.5-16.5         | ±5                 | ±100                    | 5200            | 82                                     | 7  | ±100                     | 75             |
| AM1D-1507DH52Z | 13.5-16.5         | ±7.2               | ±70                     | 5200            | 85                                     | 10 | ±100                     | 75             |
| AM1D-1509DH52Z | 13.5-16.5         | ±9                 | ±55                     | 5200            | 85                                     | 10 | ±100                     | 76             |
| AM1D-1512DH52Z | 13.5-16.5         | ±12                | ±42                     | 5200            | 83                                     | 8  | ±100                     | 77             |
| AM1D-1515DH52Z | 13.5-16.5         | ±15                | ±35                     | 5200            | 84                                     | 12 | ±100                     | 77             |

## Models

### Dual output (continued)

| Model          | Input Voltage (V) | Output Voltage (V) | Output Current max (mA) | Isolation (VDC) | Input Current Full Load   No Load (mA) |    | Max Capacitive Load (uF) | Efficiency (%) |
|----------------|-------------------|--------------------|-------------------------|-----------------|----------------------------------------|----|--------------------------|----------------|
| AM1D-1518DH52Z | 13.5-16.5         | ±18                | ±27                     | 5200            | 83                                     | 10 | ±100                     | 77             |
| AM1D-1524DH52Z | 13.5-16.5         | ±24                | ±20                     | 5200            | 80                                     | 5  | ±100                     | 78             |
| AM1D-2403DH52Z | 21.6-26.4         | ±3.3               | ±150                    | 5200            | 56                                     | 8  | ±100                     | 65             |
| AM1D-2405DH52Z | 21.6-26.4         | ±5                 | ±100                    | 5200            | 54                                     | 6  | ±100                     | 72             |
| AM1D-2407DH52Z | 21.6-26.4         | ±7.2               | ±70                     | 5200            | 57                                     | 6  | ±100                     | 75             |
| AM1D-2409DH52Z | 21.6-26.4         | ±9                 | ±55                     | 5200            | 55                                     | 6  | ±100                     | 74             |
| AM1D-2412DH52Z | 21.6-26.4         | ±12                | ±42                     | 5200            | 53                                     | 6  | ±100                     | 78             |
| AM1D-2415DH52Z | 21.6-26.4         | ±15                | ±35                     | 5200            | 52                                     | 5  | ±100                     | 78             |
| AM1D-2418DH52Z | 21.6-26.4         | ±18                | ±27                     | 5200            | 51                                     | 5  | ±100                     | 75             |
| AM1D-2424DH52Z | 21.6-26.4         | ±24                | ±20                     | 5200            | 52                                     | 8  | ±100                     | 74             |
| AM1D-4803DH52Z | 43.2-52.5         | ±3.3               | ±150                    | 5200            | 29                                     | 5  | ±100                     | 72             |
| AM1D-4805DH52Z | 43.2-52.5         | ±5                 | ±100                    | 5200            | 29                                     | 5  | ±100                     | 76             |
| AM1D-4807DH52Z | 43.2-52.5         | ±7.2               | ±70                     | 5200            | 28                                     | 5  | ±100                     | 74             |
| AM1D-4809DH52Z | 43.2-52.5         | ±9                 | ±55                     | 5200            | 27                                     | 5  | ±100                     | 78             |
| AM1D-4812DH52Z | 43.2-52.5         | ±12                | ±42                     | 5200            | 27                                     | 5  | ±100                     | 78             |
| AM1D-4815DH52Z | 43.2-52.5         | ±15                | ±35                     | 5200            | 27                                     | 5  | ±100                     | 77             |
| AM1D-4818DH52Z | 43.2-52.5         | ±18                | ±27                     | 5200            | 28                                     | 5  | ±100                     | 74             |
| AM1D-4824DH52Z | 43.2-52.5         | ±24                | ±20                     | 5200            | 27                                     | 6  | ±100                     | 65             |
| AM1D-0303DH60Z | 2.97-3.63         | ±3.3               | ±150                    | 6000            | 399                                    | 28 | ±100                     | 66             |
| AM1D-0305DH60Z | 2.97-3.63         | ±5                 | ±100                    | 6000            | 389                                    | 22 | ±100                     | 70             |
| AM1D-0307DH60Z | 2.97-3.63         | ±7.2               | ±70                     | 6000            | 379                                    | 22 | ±100                     | 74             |
| AM1D-0309DH60Z | 2.97-3.63         | ±9                 | ±55                     | 6000            | 379                                    | 35 | ±100                     | 75             |
| AM1D-0312DH60Z | 2.97-3.63         | ±12                | ±42                     | 6000            | 389                                    | 30 | ±100                     | 76             |
| AM1D-0315DH60Z | 2.97-3.63         | ±15                | ±35                     | 6000            | 389                                    | 30 | ±100                     | 78             |
| AM1D-0318DH60Z | 2.97-3.63         | ±18                | ±27                     | 6000            | 415                                    | 30 | ±100                     | 80             |
| AM1D-0324DH60Z | 2.97-3.63         | ±24                | ±20                     | 6000            | 415                                    | 30 | ±100                     | 78             |
| AM1D-0503DH60Z | 4.5-5.5           | ±3.3               | ±150                    | 6000            | 256                                    | 15 | ±100                     | 65             |
| AM1D-0505DH60Z | 4.5-5.5           | ±5                 | ±100                    | 6000            | 247                                    | 17 | ±100                     | 72             |
| AM1D-0507DH60Z | 4.5-5.5           | ±7.2               | ±70                     | 6000            | 247                                    | 16 | ±100                     | 68             |
| AM1D-0509DH60Z | 4.5-5.5           | ±9                 | ±55                     | 6000            | 244                                    | 15 | ±100                     | 76             |
| AM1D-0512DH60Z | 4.5-5.5           | ±12                | ±42                     | 6000            | 253                                    | 17 | ±100                     | 80             |
| AM1D-0515DH60Z | 4.5-5.5           | ±15                | ±35                     | 6000            | 233                                    | 17 | ±100                     | 80             |
| AM1D-0518DH60Z | 4.5-5.5           | ±18                | ±27                     | 6000            | 241                                    | 16 | ±100                     | 68             |
| AM1D-0524DH60Z | 4.5-5.5           | ±24                | ±20                     | 6000            | 244                                    | 20 | ±100                     | 76             |
| AM1D-1203DH60Z | 10.8-13.2         | ±3.3               | ±150                    | 6000            | 111                                    | 12 | ±100                     | 65             |
| AM1D-1205DH60Z | 10.8-13.2         | ±5                 | ±100                    | 6000            | 105                                    | 14 | ±100                     | 72             |
| AM1D-1207DH60Z | 10.8-13.2         | ±7.2               | ±70                     | 6000            | 111                                    | 14 | ±100                     | 75             |
| AM1D-1209DH60Z | 10.8-13.2         | ±9                 | ±55                     | 6000            | 104                                    | 9  | ±100                     | 75             |
| AM1D-1212DH60Z | 10.8-13.2         | ±12                | ±42                     | 6000            | 105                                    | 13 | ±100                     | 79             |
| AM1D-1215DH60Z | 10.8-13.2         | ±15                | ±35                     | 6000            | 102                                    | 10 | ±100                     | 79             |
| AM1D-1218DH60Z | 10.8-13.2         | ±18                | ±27                     | 6000            | 103                                    | 11 | ±100                     | 75             |
| AM1D-1224DH60Z | 10.8-13.2         | ±24                | ±20                     | 6000            | 110                                    | 20 | ±100                     | 75             |
| AM1D-1503DH60Z | 13.5-16.5         | ±3.3               | ±150                    | 6000            | 83                                     | 10 | ±100                     | 74             |
| AM1D-1505DH60Z | 13.5-16.5         | ±5                 | ±100                    | 6000            | 82                                     | 7  | ±100                     | 75             |
| AM1D-1507DH60Z | 13.5-16.5         | ±7.2               | ±70                     | 6000            | 85                                     | 10 | ±100                     | 75             |
| AM1D-1509DH60Z | 13.5-16.5         | ±9                 | ±55                     | 6000            | 85                                     | 10 | ±100                     | 76             |
| AM1D-1512DH60Z | 13.5-16.5         | ±12                | ±42                     | 6000            | 83                                     | 8  | ±100                     | 77             |
| AM1D-1515DH60Z | 13.5-16.5         | ±15                | ±35                     | 6000            | 84                                     | 12 | ±100                     | 77             |
| AM1D-1518DH60Z | 13.5-16.5         | ±18                | ±27                     | 6000            | 83                                     | 10 | ±100                     | 77             |
| AM1D-1524DH60Z | 13.5-16.5         | ±24                | ±20                     | 6000            | 80                                     | 5  | ±100                     | 78             |
| AM1D-2403DH60Z | 21.6-26.4         | ±3.3               | ±150                    | 6000            | 56                                     | 8  | ±100                     | 65             |
| AM1D-2405DH60Z | 21.6-26.4         | ±5                 | ±100                    | 6000            | 54                                     | 6  | ±100                     | 72             |
| AM1D-2407DH60Z | 21.6-26.4         | ±7.2               | ±70                     | 6000            | 57                                     | 6  | ±100                     | 75             |

## Models

### Dual output (continued)

| Model          | Input Voltage (V) | Output Voltage (V) | Output Current Max (mA) | Isolation (VDC) | Input Current Full Load   No Load (mA) |   | Max Capacitive Load (uF) | Efficiency (%) |
|----------------|-------------------|--------------------|-------------------------|-----------------|----------------------------------------|---|--------------------------|----------------|
| AM1D-2409DH60Z | 21.6-26.4         | ±9                 | ±55                     | 6000            | 55                                     | 6 | ±100                     | 74             |
| AM1D-2412DH60Z | 21.6-26.4         | ±12                | ±42                     | 6000            | 53                                     | 6 | ±100                     | 78             |
| AM1D-2415DH60Z | 21.6-26.4         | ±15                | ±35                     | 6000            | 52                                     | 5 | ±100                     | 78             |
| AM1D-2418DH60Z | 21.6-26.4         | ±18                | ±27                     | 6000            | 51                                     | 5 | ±100                     | 75             |
| AM1D-2424DH60Z | 21.6-26.4         | ±24                | ±20                     | 6000            | 52                                     | 8 | ±100                     | 74             |
| AM1D-4803DH60Z | 43.2-52.5         | ±3.3               | ±150                    | 6000            | 29                                     | 5 | ±100                     | 72             |
| AM1D-4805DH60Z | 43.2-52.5         | ±5                 | ±100                    | 6000            | 29                                     | 5 | ±100                     | 76             |
| AM1D-4807DH60Z | 43.2-52.5         | ±7.2               | ±70                     | 6000            | 28                                     | 5 | ±100                     | 74             |
| AM1D-4809DH60Z | 43.2-52.5         | ±9                 | ±55                     | 6000            | 27                                     | 5 | ±100                     | 78             |
| AM1D-4812DH60Z | 43.2-52.5         | ±12                | ±42                     | 6000            | 27                                     | 5 | ±100                     | 78             |
| AM1D-4815DH60Z | 43.2-52.5         | ±15                | ±35                     | 6000            | 27                                     | 5 | ±100                     | 77             |
| AM1D-4818DH60Z | 43.2-52.5         | ±18                | ±27                     | 6000            | 28                                     | 5 | ±100                     | 74             |
| AM1D-4824DH60Z | 43.2-52.5         | ±24                | ±20                     | 6000            | 27                                     | 5 | ±100                     | 65             |

## Models

### Dual separated output

| Model         | Input Voltage (V) | Output Voltage (V) | Output Current max (mA) | Isolation (VDC) | Input Current Full Load   No Load (mA) |    | Max Capacitive Load (uF) | Efficiency (%) |
|---------------|-------------------|--------------------|-------------------------|-----------------|----------------------------------------|----|--------------------------|----------------|
| AM1D-050303DZ | 4.5-5.5           | 3.3/3.3            | 150/150                 | 1000            | 256                                    | 15 | 100                      | 75             |
| AM1D-050505DZ | 4.5-5.5           | 5/5                | 100/100                 | 1000            | 247                                    | 17 | 100                      | 72             |
| AM1D-050707DZ | 4.5-5.5           | 7.2/7.2            | 70/70                   | 1000            | 247                                    | 16 | 100                      | 73             |
| AM1D-050909DZ | 4.5-5.5           | 9/9                | 55/55                   | 1000            | 244                                    | 15 | 100                      | 75             |
| AM1D-051212DZ | 4.5-5.5           | 12/12              | 42/42                   | 1000            | 253                                    | 17 | 100                      | 80             |
| AM1D-051515DZ | 4.5-5.5           | 15/15              | 35 /35                  | 1000            | 233                                    | 17 | 100                      | 78             |
| AM1D-051818DZ | 4.5-5.5           | 18/18              | 27/27                   | 1000            | 241                                    | 16 | 100                      | 77             |
| AM1D-052424DZ | 4.5-5.5           | 24/24              | 20/20                   | 1000            | 244                                    | 20 | 100                      | 77             |
| AM1D-120303DZ | 10.8-13.2         | 3.3/3.3            | 150/150                 | 1000            | 111                                    | 12 | 100                      | 66             |
| AM1D-120505DZ | 10.8-13.2         | 5/5                | 100/100                 | 1000            | 105                                    | 14 | 100                      | 72             |
| AM1D-120707DZ | 10.8-13.2         | 7.2/7.2            | 70/70                   | 1000            | 111                                    | 14 | 100                      | 66             |
| AM1D-120909DZ | 10.8-13.2         | 9/9                | 55/55                   | 1000            | 104                                    | 9  | 100                      | 75             |
| AM1D-121212DZ | 10.8-13.2         | 12/12              | 42/42                   | 1000            | 105                                    | 13 | 100                      | 78             |
| AM1D-121515DZ | 10.8-13.2         | 15/15              | 35 /35                  | 1000            | 102                                    | 10 | 100                      | 80             |
| AM1D-121818DZ | 10.8-13.2         | 18/18              | 27/27                   | 1000            | 103                                    | 11 | 100                      | 75             |
| AM1D-122424DZ | 10.8-13.2         | 24/24              | 20/20                   | 1000            | 110                                    | 20 | 100                      | 72             |
| AM1D-240303DZ | 21.6-26.4         | 3.3/3.3            | 150/150                 | 1000            | 56                                     | 8  | 100                      | 66             |
| AM1D-240505DZ | 21.6-26.4         | 5/5                | 100/100                 | 1000            | 54                                     | 6  | 100                      | 72             |
| AM1D-240707DZ | 21.6-26.4         | 7.2/7.2            | 70/70                   | 1000            | 57                                     | 6  | 100                      | 72             |
| AM1D-240909DZ | 21.6-26.4         | 9/9                | 55/55                   | 1000            | 55                                     | 6  | 100                      | 78             |
| AM1D-241212DZ | 21.6-26.4         | 12/12              | 42/42                   | 1000            | 53                                     | 6  | 100                      | 80             |
| AM1D-241515DZ | 21.6-26.4         | 15/15              | 35 /35                  | 1000            | 52                                     | 5  | 100                      | 77             |
| AM1D-241818DZ | 21.6-26.4         | 18/18              | 27/27                   | 1000            | 51                                     | 5  | 100                      | 75             |
| AM1D-242424DZ | 21.6-26.4         | 24/24              | 20/20                   | 1000            | 52                                     | 8  | 100                      | 73             |

NOTE: All specifications in this datasheet are measured at an ambient temperature of 25°C, humidity<75%, nominal input voltage and at rated output load unless otherwise specified.

### Input Specifications

| Parameters                     | Nominal   | Typical   | Maximum | Units |
|--------------------------------|-----------|-----------|---------|-------|
| Voltage range                  | 3.3       | 2.97-3.63 |         | VDC   |
|                                | 5         | 4.5-5.5   |         |       |
|                                | 12        | 10.8-13.2 |         |       |
|                                | 15        | 13.5-16.5 |         |       |
|                                | 24        | 21.6-26.4 |         |       |
|                                | 48        | 43.2-52.5 |         |       |
| Filter                         | Capacitor |           |         |       |
| Turn on Transient process time |           |           | 25      | ms    |
| Start up time                  |           | 200       |         | ms    |
| Absolute Maximum Rating        | 3.3 Vin   | 0-6       |         | VDC   |
|                                | 5 Vin     | 0-7       |         |       |
|                                | 12 Vin    | 0-15      |         |       |
|                                | 15 Vin    | 0-20      |         |       |
|                                | 24 Vin    | 0-28      |         |       |
|                                | 48 Vin    | 0-54      |         |       |
| Peak Input Voltage time        |           | 100       |         | ms    |

### Isolation Specifications

| Parameters         | Conditions | Typical | Rated                                                      | Units |
|--------------------|------------|---------|------------------------------------------------------------|-------|
| Tested I/O voltage | 60 sec     |         | 1000 (all models), 3000, 4000, 5200 & 6000 (single / dual) | VDC   |
| Resistance         |            | > 1000  |                                                            | MOhm  |
| Capacitance        |            | 60      |                                                            | pF    |

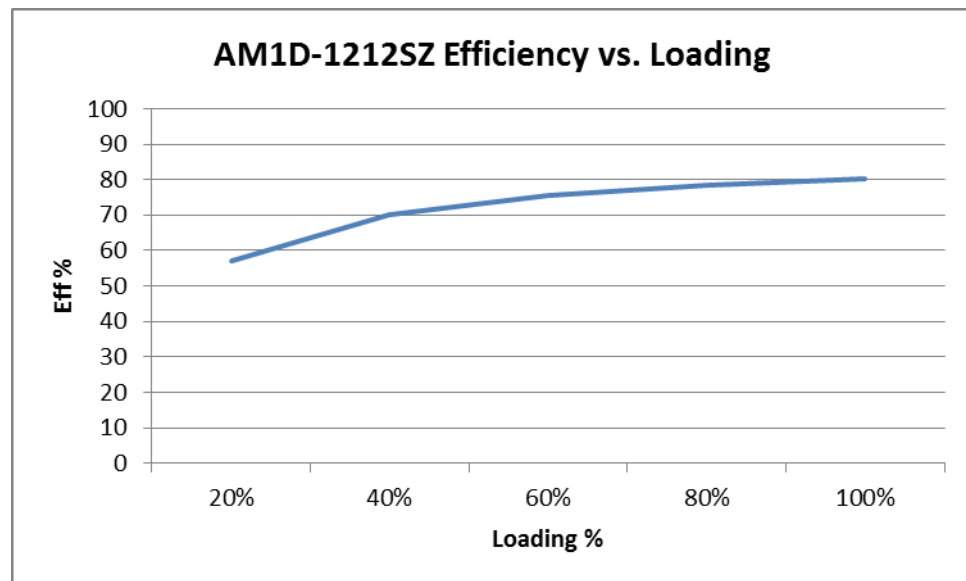
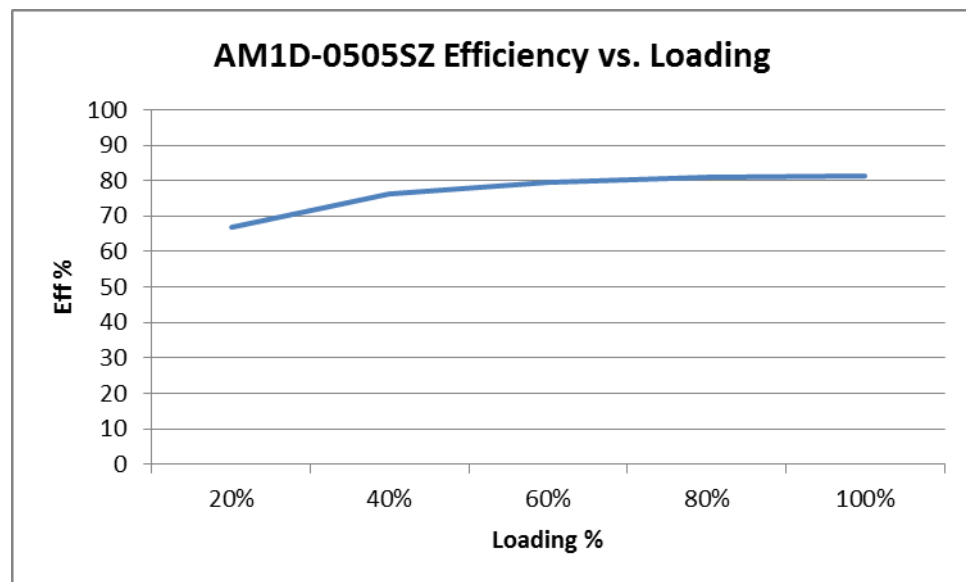
### Output Specifications

| Parameters                                            | Conditions         | Typical           | Maximum | Units  |
|-------------------------------------------------------|--------------------|-------------------|---------|--------|
| Voltage accuracy                                      |                    | ±3                |         | %      |
| Voltage balance (Dual Output model)                   | Balanced Load      | ±1                |         | %      |
| Short Circuit protection                              |                    | Momentary (1 sec) |         |        |
| Line voltage regulation (Single)                      | For 1.0% of Vin    | ±1.2              |         | %      |
| Line voltage regulation (Dual)                        | For 1.0% of Vin    | ±1.2              |         | %      |
| Load voltage regulation (Single)                      | load 20~100%       | ±10               |         | %      |
| Load voltage regulation (Single)<br>3.3V output model | load 20~100%       | ±20               |         | %      |
| Load voltage regulation (Dual)                        | load 20~100%       | ±10               |         | %      |
| Temperature coefficient                               |                    | ±0.02             |         | %/°C   |
| Ripple & Noise                                        | At 20MHz Bandwidth | 75                |         | mV p-p |
| Rising time                                           |                    | 50                |         | ms     |

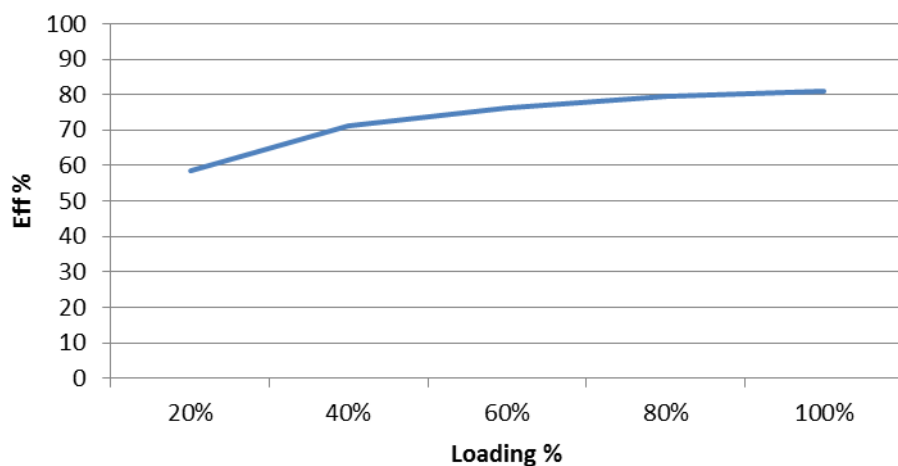
### General Specifications

| Parameters             | Conditions                             | Typical                                                 | Maximum                | Units |
|------------------------|----------------------------------------|---------------------------------------------------------|------------------------|-------|
| Switching frequency    | 100% load                              | 80                                                      |                        | KHz   |
| Operating temperature  | Full Load without Derating             | -40 to +85                                              |                        | °C    |
| Storage temperature    |                                        | -55 to +125                                             |                        | °C    |
| Max Case temperature   |                                        |                                                         | +100                   | °C    |
| Cooling                | Free air convection                    |                                                         |                        |       |
| Humidity               |                                        |                                                         | 90                     | %     |
| Case material          | Non-conductive black plastic UL 94 V-0 |                                                         |                        |       |
| Weight                 |                                        | 2.3                                                     |                        | g     |
| Dimensions (L x W x H) |                                        | 0.76 x 0.24 x 0.37 inch                                 | 19.50 x 6.00 x 9.50 mm |       |
| MTBF                   |                                        | >1.300 000 hrs (MIL-HDBK -217F, Ground Benign, t=+25°C) |                        |       |

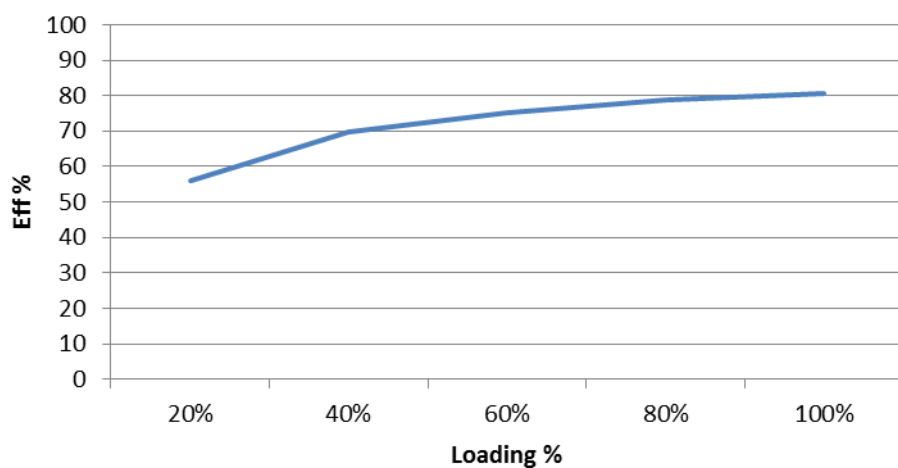
## Typical Efficiency Chart Examples



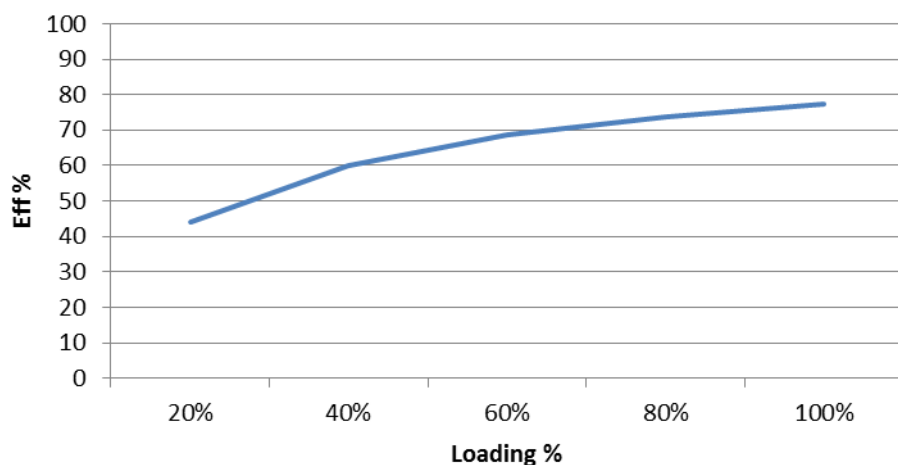
**AM1D-1512SZ Efficiency vs. Loading**



**AM1D-2412SZ Efficiency vs. Loading**



**AM1D-4824SZ Efficiency vs. Loading**



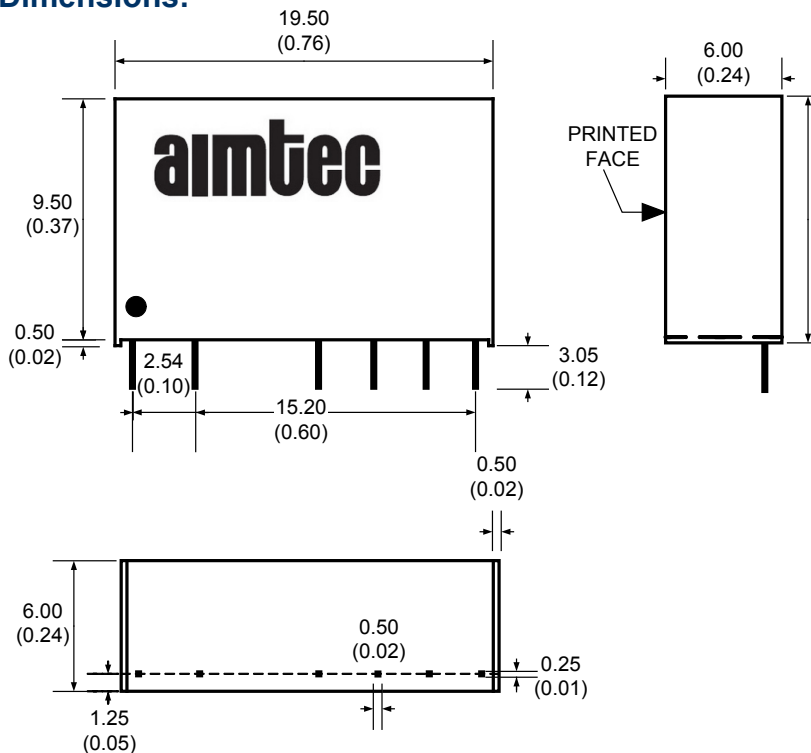
## Safety Specifications

| Standards        |                                                      |
|------------------|------------------------------------------------------|
| Agency approvals | cULus & CE (with exception of dual separated models) |
| Safety           | 60950-1, 2nd Ed + AM1                                |
|                  | EN55022 (Radiated Emissions) class B                 |
|                  | EN55024 (Noise Immunity)                             |
|                  | IEC61000-4-2(ESD) Criteria A                         |
|                  | IEC61000-4-3(Radiated immunity) Criteria A           |
|                  | IEC61000-4-4(EFT) Criteria A                         |
|                  | IEC61000-4-5(Surge) Criteria A                       |
|                  | IEC61000-4-6(CS) Criteria A                          |
|                  | IEC61000-4-8(PFMF) Criteria A                        |

## Pin Out Specifications

| Pin | Single<br>1000 VDC | Dual<br>1000 VDC | Dual Separated<br>1000 VDC | Single<br>3000, 4000, 5200 & 6000 VDC | Dual<br>3000, 4000, 5200 & 6000 VDC |
|-----|--------------------|------------------|----------------------------|---------------------------------------|-------------------------------------|
| 1   | + V Input          | + V Input        | +V Input                   | + V Input                             | + V Input                           |
| 2   | - V Input          | - V Input        | -V Input                   | - V Input                             | - V Input                           |
| 4   | - V Output         | - V Output       | +V1 Output                 | No pin                                | No pin                              |
| 5   | No pin             | Common           | -V1 Output                 | - V Output                            | - V Output                          |
| 6   | + V Output         | + V Output       | +V2 Output                 | No pin                                | Common                              |
| 7   | No pin             | No pin           | -V2 Output                 | + V Output                            | + V Output                          |

## Dimensions:



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