aimtec
Your Power Partner

Series AM2D-Z

2 Watt | DC-DC Converter

FEATURES:

- RoHS Compliant
- Low Ripple and Noise
- High Efficiency up to 82%
- 7 Pin SIP Package
- Operating Temperature -40°C to +85°C
- Pin Compatible with Multiple Manufacturers
- Isolation of 1000, 3000, 4000, 5200 & 6000 VDC

RoHS

Models
Single output

Model	Input Voltage (V)	Output Voltage (V)	Output Current Max (mA)	Input Current Full Load typ. | No Load max.(mA)		Isolation (VDC)	Max Capacitive Load (µF)	Efficiency (%)
AM2D-0503SZ	4.5-5.5	3.3	400	367	30	1000	470	72
AM2D-0505SZ	4.5-5.5	5	400	512	30	1000	470	78
AM2D-0507SZ	4.5-5.5	7.2	277.7	500	30	1000	470	80
AM2D-0509SZ	4.5-5.5	9	222.2	500	30	1000	470	80
AM2D-0512SZ	4.5-5.5	12	166.7	487	30	1000	470	82
AM2D-0515SZ	4.5-5.5	15	133.3	487	30	1000	470	82
AM2D-0518SZ	4.5-5.5	18	111.1	487	30	1000	470	82
AM2D-0524SZ	4.5-5.5	24	83.3	487	30	1000	470	82
AM2D-1203SZ	10.8-13.2	3.3	400	169	36	1000	470	65
AM2D-1205SZ	10.8-13.2	5	400	216	20	1000	470	77
AM2D-1207SZ	10.8-13.2	7.2	277.7	208	20	1000	470	80
AM2D-1209SZ	10.8-13.2	9	222.2	208	20	1000	470	80
AM2D-1212SZ	10.8-13.2	12	166.7	203	20	1000	470	82
AM2D-1215SZ	10.8-13.2	15	133.3	203	20	1000	470	82
AM2D-1218SZ	10.8-13.2	18	111.1	208	20	1000	470	80
AM2D-1224SZ	10.8-13.2	24	83.3	208	20	1000	470	80
AM2D-2403SZ	21.6-26.4	3.3	400	76	10	1000	470	72
AM2D-2405SZ	21.6-26.4	5	400	105	10	1000	470	79
AM2D-2407SZ	21.6-26.4	7.2	277.7	104	10	1000	470	80
AM2D-2409SZ	21.6-26.4	9	222.2	104	10	1000	470	80
AM2D-2412SZ	21.6-26.4	12	166.7	102	10	1000	470	80
AM2D-2415SZ	21.6-26.4	15	133.3	101	10	1000	470	82
AM2D-2418SZ	21.6-26.4	18	111.1	101	10	1000	470	82
AM2D-2424SZ	21.6-26.4	24	83.3	104	10	1000	470	80
AM2D-0503SH30Z	4.5-5.5	3.3	400	367	30	3000	470	72
AM2D-0505SH30Z	4.5-5.5	5	400	512	30	3000	470	78
AM2D-0507SH30Z	4.5-5.5	7.2	277.7	500	30	3000	470	80
AM2D-0509SH30Z	4.5-5.5	9	222.2	500	30	3000	470	80
AM2D-0512SH30Z	4.5-5.5	12	166.7	487	30	3000	470	82
AM2D-0515SH30Z	4.5-5.5	15	133.3	487	30	3000	470	82
AM2D-0518SH30Z	4.5-5.5	18	111.1	487	30	3000	470	82
AM2D-0524SH30Z	4.5-5.5	24	83.3	487	30	3000	470	82
AM2D-1203SH30Z	10.8-13.2	3.3	400	169	36	3000	470	65
AM2D-1205SH30Z	10.8-13.2	5	400	216	20	3000	470	77
AM2D-1207SH30Z	10.8-13.2	7.2	277.7	208	20	3000	470	80
AM2D-1209SH30Z	10.8-13.2	9	222.2	208	20	3000	470	80
AM2D-1212SH30Z	10.8-13.2	12	166.7	203	20	3000	470	82
AM2D-1215SH30Z	10.8-13.2	15	133.3	203	20	3000	470	82
AM2D-1218SH30Z	10.8-13.2	18	111.1	208	20	3000	470	80
AM2D-1224SH30Z	10.8-13.2	24	83.3	208	20	3000	470	80
AM2D-2403SH30Z	21.6-26.4	3.3	400	76	10	3000	470	72
AM2D-2405SH30Z	21.6-26.4	5	400	105	10	3000	470	79
AM2D-2407SH30Z	21.6-26.4	7.2	277.7	104	10	3000	470	80
AM2D-2409SH30Z	21.6-26.4	9	222.2	104	10	3000	470	80
AM2D-2412SH30Z	21.6-26.4	12	166.7	102	10	3000	470	80
AM2D-2415SH30Z	21.6-26.4	15	133.3	101	10	3000	470	82

Models
Single output (continued)

Model	Input Voltage (V)	Output Voltage (V)	Output Current Max (mA)	Input Current Full Load typ. | No Load max.(mA)		Isolation (VDC)	Max Capacitive Load (µF)	Efficiency (%)
AM2D-2418SH30Z	21.6-26.4	18	111.1	101	10	3000	470	82
AM2D-2424SH30Z	21.6-26.4	24	83.3	104	10	3000	470	80
AM2D-0503SH40Z	4.5-5.5	3.3	400	367	30	4000	470	72
AM2D-0505SH40Z	4.5-5.5	5	400	512	30	4000	470	78
AM2D-0507SH40Z	4.5-5.5	7.2	277.7	500	30	4000	470	80
AM2D-0509SH40Z	4.5-5.5	9	222.2	500	30	4000	470	80
AM2D-0512SH40Z	4.5-5.5	12	166.7	487	30	4000	470	82
AM2D-0515SH40Z	4.5-5.5	15	133.3	487	30	4000	470	82
AM2D-0518SH40Z	4.5-5.5	18	111.1	487	30	4000	470	82
AM2D-0524SH40Z	4.5-5.5	24	83.3	487	30	4000	470	82
AM2D-1203SH40Z	10.8-13.2	3.3	400	169	36	4000	470	65
AM2D-1205SH40Z	10.8-13.2	5	400	216	20	4000	470	77
AM2D-1207SH40Z	10.8-13.2	7.2	277.7	208	20	4000	470	80
AM2D-1209SH40Z	10.8-13.2	9	222.2	208	20	4000	470	80
AM2D-1212SH40Z	10.8-13.2	12	166.7	203	20	4000	470	82
AM2D-1215SH40Z	10.8-13.2	15	133.3	203	20	4000	470	82
AM2D-1218SH40Z	10.8-13.2	18	111.1	208	20	4000	470	80
AM2D-1224SH40Z	10.8-13.2	24	83.3	208	20	4000	470	80
AM2D-2403SH40Z	21.6-26.4	3.3	400	76	10	4000	470	72
AM2D-2405SH40Z	21.6-26.4	5	400	105	10	4000	470	79
AM2D-2407SH40Z	21.6-26.4	7.2	277.7	104	10	4000	470	80
AM2D-2409SH40Z	21.6-26.4	9	222.2	104	10	4000	470	80
AM2D-2412SH40Z	21.6-26.4	12	166.7	102	10	4000	470	80
AM2D-2415SH40Z	21.6-26.4	15	133.3	101	10	4000	470	82
AM2D-2418SH40Z	21.6-26.4	18	111.1	101	10	4000	470	82
AM2D-2424SH40Z	21.6-26.4	24	83.3	104	10	4000	470	80
AM2D-0503SH52Z	4.5-5.5	3.3	400	367	30	5200	470	72
AM2D-0505SH52Z	4.5-5.5	5	400	512	30	5200	470	78
AM2D-0507SH52Z	4.5-5.5	7.2	277.7	500	30	5200	470	80
AM2D-0509SH52Z	4.5-5.5	9	222.2	500	30	5200	470	80
AM2D-0512SH52Z	4.5-5.5	12	166.7	487	30	5200	470	82
AM2D-0515SH52Z	4.5-5.5	15	133.3	487	30	5200	470	82
AM2D-0518SH52Z	4.5-5.5	18	111.1	487	30	5200	470	82
AM2D-0524SH52Z	4.5-5.5	24	83.3	487	30	5200	470	82
AM2D-1203SH52Z	10.8-13.2	3.3	400	169	36	5200	470	65
AM2D-1205SH52Z	10.8-13.2	5	400	216	20	5200	470	77
AM2D-1207SH52Z	10.8-13.2	7.2	277.7	208	20	5200	470	80
AM2D-1209SH52Z	10.8-13.2	9	222.2	208	20	5200	470	80
AM2D-1212SH52Z	10.8-13.2	12	166.7	203	20	5200	470	82
AM2D-1215SH52Z	10.8-13.2	15	133.3	203	20	5200	470	82
AM2D-1218SH52Z	10.8-13.2	18	111.1	208	20	5200	470	80
AM2D-1224SH52Z	10.8-13.2	24	83.3	208	20	5200	470	80
AM2D-2403SH52Z	21.6-26.4	3.3	400	76	10	5200	470	72
AM2D-2405SH52Z	21.6-26.4	5	400	105	10	5200	470	79
AM2D-2407SH52Z	21.6-26.4	7.2	277.7	104	10	5200	470	80
AM2D-2409SH52Z	21.6-26.4	9	222.2	104	10	5200	470	80
AM2D-2412SH52Z	21.6-26.4	12	166.7	102	10	5200	470	80
AM2D-2415SH52Z	21.6-26.4	15	133.3	101	10	5200	470	82
AM2D-2418SH52Z	21.6-26.4	18	111.1	101	10	5200	470	82
AM2D-2424SH52Z	21.6-26.4	24	83.3	104	10	5200	470	80

Models
Single output (continued)

Model	Input Voltage (V)	Output Voltage (V)	Output Current Max (mA)	Input Current Full Load typ. | No Load max.(mA)		Isolation (VDC)	Max Capacitive Load (µF)	Efficiency (%)
AM2D-0503SH60Z	4.5-5.5	3.3	400	500	30	6000	470	72
AM2D-0505SH60Z	4.5-5.5	5	400	487	30	6000	470	78
AM2D-0507SH60Z	4.5-5.5	7.2	277.7	487	30	6000	470	80
AM2D-0509SH60Z	4.5-5.5	9	222.2	487	30	6000	470	80
AM2D-0512SH60Z	4.5-5.5	12	166.7	487	30	6000	470	82
AM2D-0515SH60Z	4.5-5.5	15	133.3	169	36	6000	470	82
AM2D-0518SH60Z	4.5-5.5	18	111.1	216	20	6000	470	82
AM2D-0524SH60Z	4.5-5.5	24	83.3	208	20	6000	470	82
AM2D-1203SH60Z	10.8-13.2	3.3	400	208	20	6000	470	65
AM2D-1205SH60Z	10.8-13.2	5	400	203	20	6000	470	77
AM2D-1207SH60Z	10.8-13.2	7.2	277.7	203	20	6000	470	80
AM2D-1209SH60Z	10.8-13.2	9	222.2	208	20	6000	470	80
AM2D-1212SH60Z	10.8-13.2	12	166.7	208	20	6000	470	82
AM2D-1215SH60Z	10.8-13.2	15	133.3	76	10	6000	470	82
AM2D-1218SH60Z	10.8-13.2	18	111.1	105	10	6000	470	80
AM2D-1224SH60Z	10.8-13.2	24	83.3	104	10	6000	470	80
AM2D-2403SH60Z	21.6-26.4	3.3	400	104	10	6000	470	72
AM2D-2405SH60Z	21.6-26.4	5	400	102	10	6000	470	79
AM2D-2407SH60Z	21.6-26.4	7.2	277.7	101	10	6000	470	80
AM2D-2409SH60Z	21.6-26.4	9	222.2	101	10	6000	470	80
AM2D-2412SH60Z	21.6-26.4	12	166.7	104	10	6000	470	80
AM2D-2415SH60Z	21.6-26.4	15	133.3	45	6	6000	470	82
AM2D-2418SH60Z	21.6-26.4	18	111.1	102	10	6000	470	82
AM2D-2424SH60Z	21.6-26.4	24	83.3	100	13	6000	470	80

Models
Dual output

Model	Input Voltage (V)	Output Voltage (V)	Output Current Max (mA)	Input Current Full Load typ. | No Load max.(mA)		Isolation (VDC)	Max Capacitive Load (µF)	Efficiency (%)
AM2D-0503DZ	4.5-5.5	±3.3	±200	406	30	1000	±220	65
AM2D-0505DZ	4.5-5.5	±5	±200	555	30	1000	±220	72
AM2D-0507DZ	4.5-5.5	±7.2	±138.8	555	30	1000	±220	72
AM2D-0509DZ	4.5-5.5	±9	±111.1	519	30	1000	±220	77
AM2D-0512DZ	4.5-5.5	±12	±83.3	512	38	1000	±220	78
AM2D-0515DZ	4.5-5.5	±15	±66.7	500	30	1000	±220	80
AM2D-0518DZ	4.5-5.5	±18	±55.6	500	30	1000	±220	80
AM2D-0524DZ	4.5-5.5	±24	±41.7	500	30	1000	±220	80
AM2D-1203DZ	10.8-13.2	±3.3	±200	164	20	1000	±220	67
AM2D-1205DZ	10.8-13.2	±5	±200	222	20	1000	±220	75
AM2D-1207DZ	10.8-13.2	±7.2	±138.8	219	20	1000	±220	76
AM2D-1209DZ	10.8-13.2	±9	±111.1	216	20	1000	±220	77
AM2D-1212DZ	10.8-13.2	±12	±83.3	203	20	1000	±220	82
AM2D-1215DZ	10.8-13.2	±15	±66.7	203	20	1000	±220	82
AM2D-1218DZ	10.8-13.2	±18	±55.6	203	20	1000	±220	82
AM2D-1224DZ	10.8-13.2	±24	±41.7	203	20	1000	±220	82
AM2D-2403DZ	21.6-26.4	±3.3	±200	80	10	1000	±220	68
AM2D-2405DZ	21.6-26.4	±5	±200	111	10	1000	±220	75
AM2D-2407DZ	21.6-26.4	±7.2	±138.8	111	10	1000	±220	75
AM2D-2409DZ	21.6-26.4	±9	±111.1	104	10	1000	±220	80
AM2D-2412DZ	21.6-26.4	±12	±83.3	101	10	1000	±220	82
AM2D-2415DZ	21.6-26.4	±15	±66.7	101	10	1000	±220	82
AM2D-2418DZ	21.6-26.4	±18	±55.6	101	10	1000	±220	82
AM2D-2424DZ	21.6-26.4	±24	±41.7	101	10	1000	±220	82

Models
Dual output (continued)

Model	Input Voltage (V)	Output Voltage (V)	Output Current Max (mA)	Input Current Full Load typ. | No Load max.(mA)		Isolation (VDC)	Max Capacitive Load (µF)	Efficiency (%)
AM2D-0503DH30Z	4.5-5.5	±3.3	±200	406	30	3000	±220	65
AM2D-0505DH30Z	4.5-5.5	±5	±200	555	30	3000	±220	72
AM2D-0507DH30Z	4.5-5.5	±7.2	±138.8	555	30	3000	±220	72
AM2D-0509DH30Z	4.5-5.5	±9	±111.1	519	30	3000	±220	77
AM2D-0512DH30Z	4.5-5.5	±12	±83.3	512	38	3000	±220	78
AM2D-0515DH30Z	4.5-5.5	±15	±66.7	500	30	3000	±220	80
AM2D-0518DH30Z	4.5-5.5	±18	±55.6	500	30	3000	±220	80
AM2D-0524DH30Z	4.5-5.5	±24	±41.7	500	30	3000	±220	80
AM2D-1203DH30Z	10.8-13.2	±3.3	±200	164	20	3000	±220	67
AM2D-1205DH30Z	10.8-13.2	±5	±200	222	20	3000	±220	75
AM2D-1207DH30Z	10.8-13.2	±7.2	±138.8	219	20	3000	±220	76
AM2D-1209DH30Z	10.8-13.2	±9	±111.1	216	20	3000	±220	77
AM2D-1212DH30Z	10.8-13.2	±12	±83.3	203	20	3000	±220	82
AM2D-1215DH30Z	10.8-13.2	±15	±66.7	203	20	3000	±220	82
AM2D-1218DH30Z	10.8-13.2	±18	±55.6	203	20	3000	±220	82
AM2D-1224DH30Z	10.8-13.2	±24	±41.7	203	20	3000	±220	82
AM2D-2403DH30Z	21.6-26.4	±3.3	±200	80	10	3000	±220	68
AM2D-2405DH30Z	21.6-26.4	±5	±200	111	10	3000	±220	75
AM2D-2407DH30Z	21.6-26.4	±7.2	±138.8	111	10	3000	±220	75
AM2D-2409DH30Z	21.6-26.4	±9	±111.1	104	10	3000	±220	80
AM2D-2412DH30Z	21.6-26.4	±12	±83.3	101	10	3000	±220	82
AM2D-2415DH30Z	21.6-26.4	±15	±66.7	101	10	3000	±220	82
AM2D-2418DH30Z	21.6-26.4	±18	±55.6	101	10	3000	±220	82
AM2D-2424DH30Z	21.6-26.4	±24	±41.7	101	10	3000	±220	82
AM2D-0503DH40Z	4.5-5.5	±3.3	±200	406	30	4000	±220	65
AM2D-0505DH40Z	4.5-5.5	±5	±200	555	30	4000	±220	72
AM2D-0507DH40Z	4.5-5.5	±7.2	±138.8	555	30	4000	±220	72
AM2D-0509DH40Z	4.5-5.5	±9	±111.1	519	30	4000	±220	77
AM2D-0512DH40Z	4.5-5.5	±12	±83.3	512	38	4000	±220	78
AM2D-0515DH40Z	4.5-5.5	±15	±66.7	500	30	4000	±220	80
AM2D-0518DH40Z	4.5-5.5	±18	±55.6	500	30	4000	±220	80
AM2D-0524DH40Z	4.5-5.5	±24	±41.7	500	30	4000	±220	80
AM2D-1203DH40Z	10.8-13.2	±3.3	±200	164	20	4000	±220	67
AM2D-1205DH40Z	10.8-13.2	±5	±200	222	20	4000	±220	75
AM2D-1207DH40Z	10.8-13.2	±7.2	±138.8	219	20	4000	±220	76
AM2D-1209DH40Z	10.8-13.2	±9	±111.1	216	20	4000	±220	77
AM2D-1212DH40Z	10.8-13.2	±12	±83.3	203	20	4000	±220	82
AM2D-1215DH40Z	10.8-13.2	±15	±66.7	203	20	4000	±220	82
AM2D-1218DH40Z	10.8-13.2	±18	±55.6	203	20	4000	±220	82
AM2D-1224DH40Z	10.8-13.2	±24	±41.7	203	20	4000	±220	84
AM2D-2403DH40Z	21.6-26.4	±3.3	±200	80	10	4000	±220	68
AM2D-2405DH40Z	21.6-26.4	±5	±200	111	10	4000	±220	75
AM2D-2407DH40Z	21.6-26.4	±7.2	±138.8	111	10	4000	±220	75
AM2D-2409DH40Z	21.6-26.4	±9	±111.1	104	10	4000	±220	80
AM2D-2412DH40Z	21.6-26.4	±12	±83.3	101	10	4000	±220	82
AM2D-2415DH40Z	21.6-26.4	±15	±66.7	101	10	4000	±220	82
AM2D-2418DH40Z	21.6-26.4	±18	±55.6	101	10	4000	±220	82
AM2D-2424DH40Z	21.6-26.4	±24	±41.7	101	10	4000	±220	82

Models
Dual output (continued)

Model	Input Voltage (V)	Output Voltage (V)	Output Current Max (mA)	Input Current Full Load typ. | No Load max.(mA)		Isolation (VDC)	Max Capacitive Load (µF)	Efficiency (%)
AM2D-0503DH52Z	4.5-5.5	±3.3	±200	406	30	5200	±220	65
AM2D-0505DH52Z	4.5-5.5	±5	±200	555	30	5200	±220	72
AM2D-0507DH52Z	4.5-5.5	±7.2	±138.8	555	30	5200	±220	72
AM2D-0509DH52Z	4.5-5.5	±9	±111.1	519	30	5200	±220	77
AM2D-0512DH52Z	4.5-5.5	±12	±83.3	512	38	5200	±220	78
AM2D-0515DH52Z	4.5-5.5	±15	±66.7	500	30	5200	±220	80
AM2D-0518DH52Z	4.5-5.5	±18	±55.6	500	30	5200	±220	80
AM2D-0524DH52Z	4.5-5.5	±24	±41.7	500	30	5200	±220	80
AM2D-1203DH52Z	10.8-13.2	±3.3	±200	164	20	5200	±220	67
AM2D-1205DH52Z	10.8-13.2	±5	±200	222	20	5200	±220	75
AM2D-1207DH52Z	10.8-13.2	±7.2	±138.8	219	20	5200	±220	76
AM2D-1209DH52Z	10.8-13.2	±9	±111.1	216	20	5200	±220	77
AM2D-1212DH52Z	10.8-13.2	±12	±83.3	203	20	5200	±220	82
AM2D-1215DH52Z	10.8-13.2	±15	±66.7	203	20	5200	±220	82
AM2D-1218DH52Z	10.8-13.2	±18	±55.6	203	20	5200	±220	82
AM2D-1224DH52Z	10.8-13.2	±24	±41.7	203	20	5200	±220	82
AM2D-2403DH52Z	21.6-26.4	±3.3	±200	80	10	5200	±220	68
AM2D-2405DH52Z	21.6-26.4	±5	±200	111	10	5200	±220	75
AM2D-2407DH52Z	21.6-26.4	±7.2	±138.8	111	10	5200	±220	75
AM2D-2409DH52Z	21.6-26.4	±9	±111.1	104	10	5200	±220	80
AM2D-2412DH52Z	21.6-26.4	±12	±83.3	101	10	5200	±220	82
AM2D-2415DH52Z	21.6-26.4	±15	±66.7	101	10	5200	±220	82
AM2D-2418DH52Z	21.6-26.4	±18	±55.6	101	10	5200	±220	82
AM2D-2424DH52Z	21.6-26.4	±24	±41.7	101	10	5200	±220	82
AM2D-0503DH60Z	4.5-5.5	±3.3	±200	406	30	6000	±220	65
AM2D-0505DH60Z	4.5-5.5	±5	±200	555	30	6000	±220	72
AM2D-0507DH60Z	4.5-5.5	±7.2	±138.8	555	30	6000	±220	72
AM2D-0509DH60Z	4.5-5.5	±9	±111.1	519	30	6000	±220	77
AM2D-0512DH60Z	4.5-5.5	±12	±83.3	512	38	6000	±220	78
AM2D-0515DH60Z	4.5-5.5	±15	±66.7	500	30	6000	±220	80
AM2D-0518DH60Z	4.5-5.5	±18	±55.6	500	30	6000	±220	80
AM2D-0524DH60Z	4.5-5.5	±24	±41.7	500	30	6000	±220	80
AM2D-1203DH60Z	10.8-13.2	±3.3	±200	164	20	6000	±220	67
AM2D-1205DH60Z	10.8-13.2	±5	±200	222	20	6000	±220	75
AM2D-1207DH60Z	10.8-13.2	±7.2	±138.8	219	20	6000	±220	76
AM2D-1209DH60Z	10.8-13.2	±9	±111.1	216	20	6000	±220	77
AM2D-1212DH60Z	10.8-13.2	±12	±83.3	203	20	6000	±220	82
AM2D-1215DH60Z	10.8-13.2	±15	±66.7	203	20	6000	±220	82
AM2D-1218DH60Z	10.8-13.2	±18	±55.6	203	20	6000	±220	82
AM2D-1224DH60Z	10.8-13.2	±24	±41.7	203	20	6000	±220	82
AM2D-2403DH60Z	21.6-26.4	±3.3	±200	80	10	6000	±220	68
AM2D-2405DH60Z	21.6-26.4	±5	±200	111	10	6000	±220	75
AM2D-2407DH60Z	21.6-26.4	±7.2	±138.8	111	10	6000	±220	75
AM2D-2409DH60Z	21.6-26.4	±9	±111.1	104	10	6000	±220	80
AM2D-2412DH60Z	21.6-26.4	±12	±83.3	101	10	6000	±220	82
AM2D-2415DH60Z	21.6-26.4	±15	±66.7	101	10	6000	±220	82
AM2D-2418DH60Z	21.6-26.4	±18	±55.6	101	10	6000	±220	82
AM2D-2424DH60Z	21.6-26.4	±24	±41.7	101	10	6000	±220	82

Models

Dual separated output

Model	Input Voltage (V)	Output Voltage (V)	Output Current Max (mA)	Input Current Full Load typ. | No Load max.(mA)		Isolation (VDC)	Max Capacitive Load (µF)	Efficiency (%)
AM2D-050303DZ	4.5-5.5	3.3 / 3.3	303 / 303	519	35	1000	±220	77
AM2D-050505DZ	4.5-5.5	5 / 5	200 / 200	512	35	1000	±220	78
AM2D-050707DZ	4.5-5.5	7.2 / 7.2	139 / 139	512	35	1000	±220	78
AM2D-050909DZ	4.5-5.5	9 / 9	111 / 111	512	35	1000	±220	78
AM2D-051212DZ	4.5-5.5	12 / 12	83 / 83	512	35	1000	±220	78
AM2D-051515DZ	4.5-5.5	15 / 15	67 / 67	506	35	1000	±220	79
AM2D-051818DZ	4.5-5.5	18 / 18	55 / 55	500	35	1000	±220	80
AM2D-052424DZ	4.5-5.5	24 / 24	41 / 41	500	35	1000	±220	80
AM2D-120303DZ	10.8-13.2	3.3 / 3.3	303 / 303	216	25	1000	±220	77
AM2D-120505DZ	10.8-13.2	5 / 5	200 / 200	216	25	1000	±220	77
AM2D-120707DZ	10.8-13.2	7.2 / 7.2	139 / 139	216	25	1000	±220	77
AM2D-120909DZ	10.8-13.2	9 / 9	111 / 111	216	25	1000	±220	77
AM2D-121212DZ	10.8-13.2	12 / 12	83 / 83	213	25	1000	±220	78
AM2D-121515DZ	10.8-13.2	15 / 15	67 / 67	213	25	1000	±220	78
AM2D-121818DZ	10.8-13.2	18 / 18	55 / 55	208	25	1000	±220	80
AM2D-122424DZ	10.8-13.2	24 / 24	41 / 41	208	25	1000	±220	80
AM2D-240303DZ	21.6-26.4	3.3 / 3.3	303 / 303	106	12	1000	±220	78
AM2D-240505DZ	21.6-26.4	5 / 5	200 / 200	106	12	1000	±220	78
AM2D-240707DZ	21.6-26.4	7.2 / 7.2	139 / 139	106	12	1000	±220	75
AM2D-240909DZ	21.6-26.4	9 / 9	111 / 111	106	12	1000	±220	78
AM2D-241212DZ	21.6-26.4	12 / 12	83 / 83	104	12	1000	±220	80
AM2D-241515DZ	21.6-26.4	15 / 15	67 / 67	104	12	1000	±220	80
AM2D-241818DZ	21.6-26.4	18 / 18	55 / 55	104	12	1000	±220	80
AM2D-242424DZ	21.6-26.4	24 / 24	41 / 41	104	12	1000	±220	80

Input Specifications

Parameters	Nominal	Typical	Maximum	Units
Voltage range	5	4.5-5.5		VDC
	12	10.8-13.2		VDC
	24	21.6-26.4		VDC
Filter	Capacitor			
Absolute Maximum Rating	5 Vin	0-7		VDC
	12 Vin	0-15		VDC
	24 Vin	0-28		VDC
Peak Input Voltage time		100		ms
Input Reflected Ripple Current*		20		mA p-p

* Measured with a 12µH source inductor.
Dual separated models are measured with a 12µH source inductor and a 47µF (ESR<1Ω at 100KHz) source capacitor.

Isolation Specifications

Parameters	Conditions	Typical	Rated	Units
Tested I/O voltage	60sec		1000, 3000, 4000, 5200, 6000	VDC
Resistance		> 1000		MOhm
Capacitance		60		pF

Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy		±3		%
Voltage balance	Dual output	±1		%
Line voltage regulation	For 1.0% of Vin	±1.2		%
Load voltage regulation	Load 20~100%	±10		%
Load voltage regulation	3.3V output model, Load 20~100%	±20		%

Temperature coefficient		±0.02		%/°C
Ripple & Noise	At 20MHz Bandwidth	75		mV p-p

General Specifications

Parameters	Conditions	Typical	Maximum	Units
Switching frequency	100% load	80		KHz
Operating temperature	Full Load	-40 to +85		°C
Storage temperature		-40 to +125		°C
Max Case temperature			+100	°C
Cooling	Free air convection			
Humidity			95	%
Case material	Plastic UL94-VO			
Weight	7.2mm width models Other models	2.7 2.3		g
Dimensions (L x W x H)	0.77 x 0.24 x 0.39 inch 0.77 x 0.28 x 0.39 inch	19.50 x 6.00 x 10.00 mm 19.50 x 7.20 x 10.00 mm		
MTBF	>1 121 000 hrs (MIL-HDBK -217F, Ground Benign, t=+25°C)			

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

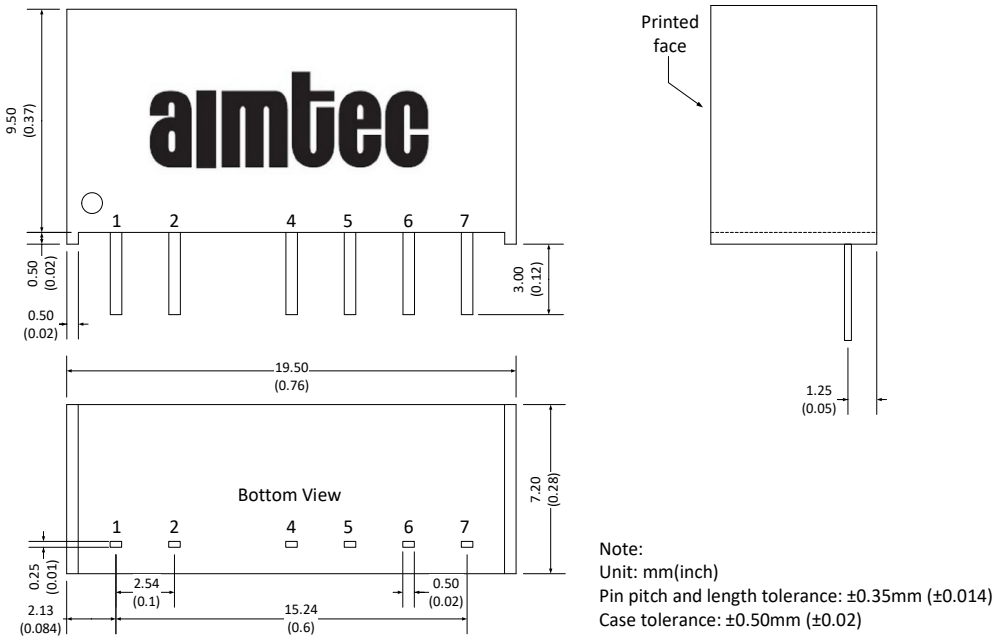
Safety Specifications

Parameters	
Standards	Design to meet IEC/EN/UL 60950-1, 62368-1
	EN55032 class B with the recommended EMC circuit. (except dual separated models)
	IEC61000-4-2, Perf. Criteria A (except dual separated models)
	IEC61000-4-3, Perf. Criteria A (except dual separated models)
	IEC61000-4-4, Perf. Criteria A with a 470uF/100V capacitor (except dual separated models)
	IEC61000-4-5, Perf. Criteria A with a 470uF/100V capacitor (except dual separated models)
	IEC61000-4-6, Perf. Criteria A (except dual separated models)
	IEC61000-4-8, Perf. Criteria A (except dual separated models)

Pin Out Specifications

Pin	1000 VDC			3000, 4000 , 5200, 6000 VDC	
	Single	Dual	Dual separated	Single	Dual
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

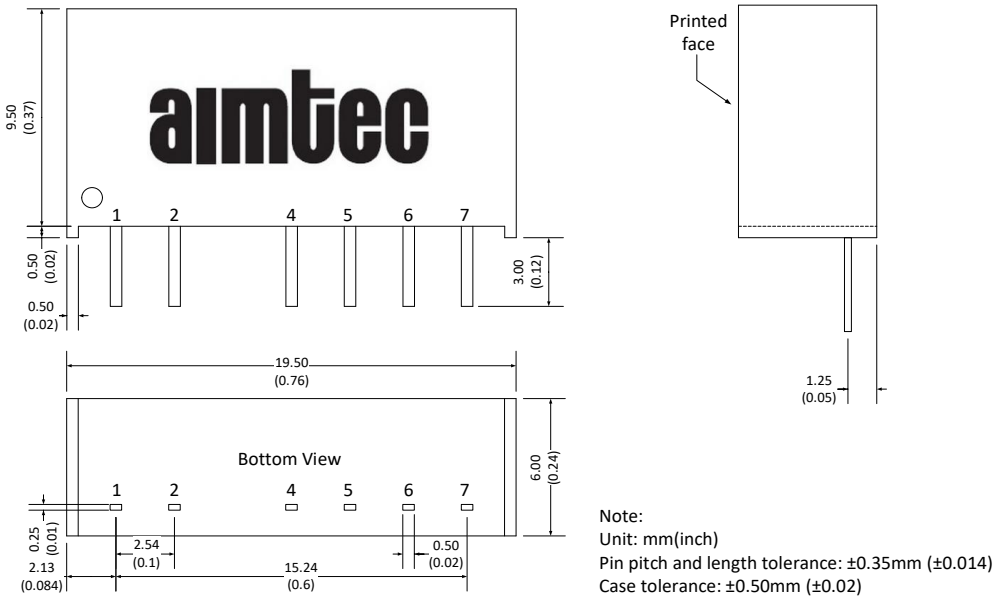
Dimensions for models listed in the 7.2mm width models table.



Note:
Unit: mm(inch)
Pin pitch and length tolerance: ±0.35mm (±0.014)
Case tolerance: ±0.50mm (±0.02)

7.2mm width models	
AM2D-0505SH40Z	AM2D-051818DZ
AM2D-0505SH52Z	AM2D-052424DZ
AM2D-1203SH60Z	AM2D-120303DZ
AM2D-0507DH52Z	AM2D-120707DZ
AM2D-0507DH60Z	AM2D-120909DZ
AM2D-0515DH40Z	AM2D-121515DZ
AM2D-0515DH52Z	AM2D-121818DZ
AM2D-0515DH60Z	AM2D-122424DZ
AM2D-1205DH52Z	AM2D-240303DZ
AM2D-050303DZ	AM2D-241515DZ
AM2D-050505DZ	AM2D-241818DZ
AM2D-050707DZ	AM2D-242424DZ
AM2D-050909DZ	-
AM2D-051212DZ	-

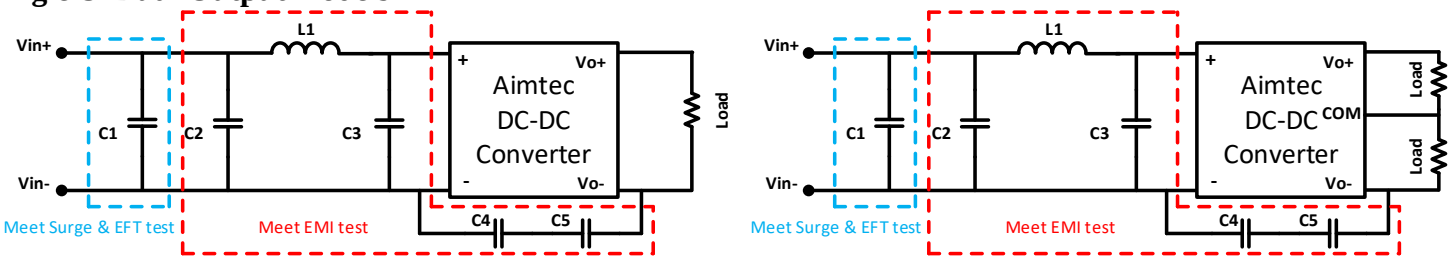
Dimensions for others



Note:
Unit: mm(inch)
Pin pitch and length tolerance: ±0.35mm (±0.014)
Case tolerance: ±0.50mm (±0.02)

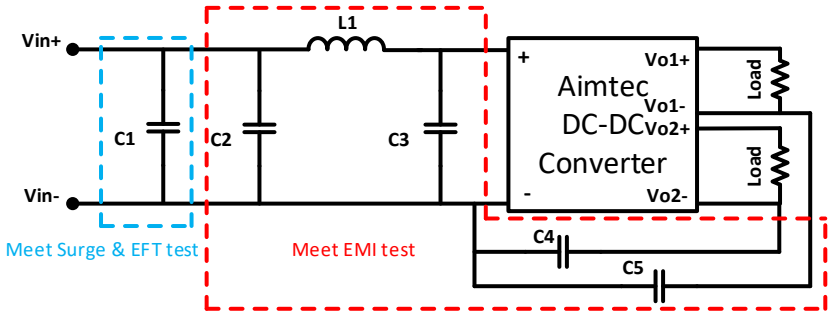
Recommended EMC Circuit

Single & Dual Output models



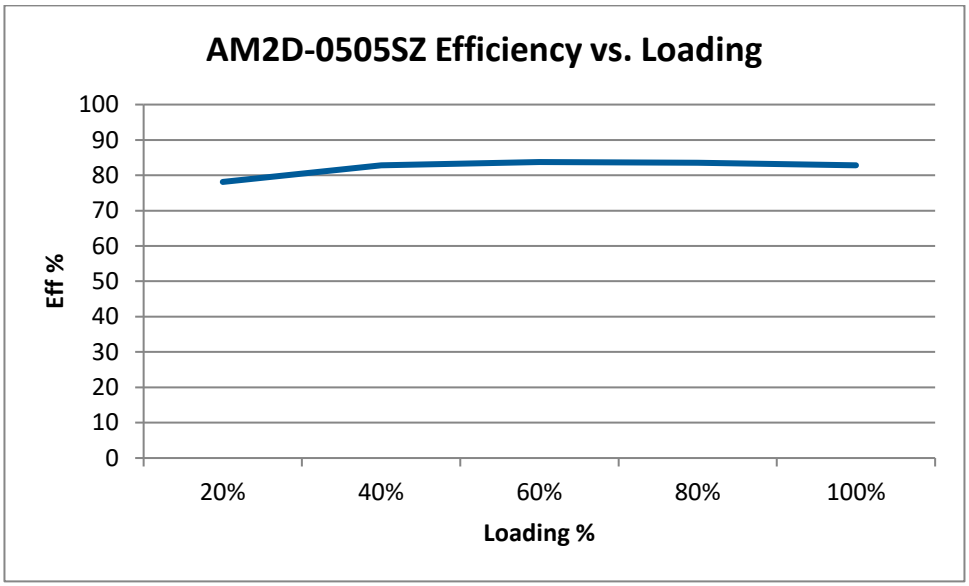
Model	C1	C2	L1	C3	C4	C5
03xx 05xx 12xx 15xx	470 µF/100V	2.2 µF/100V	18 µH	-	-	-
24xx 24xx-H30	470 µF/100V	2.2 µF/100V	18 µH	2.2 µF/100V	470 pF/3kV	Short
24xx-H40 24xx-H52 24xx-H60	470 µF/100V	2.2 µF/100V	18 µH	2.2 µF/100V	1000 pF/3kV	1000 pF/3kV

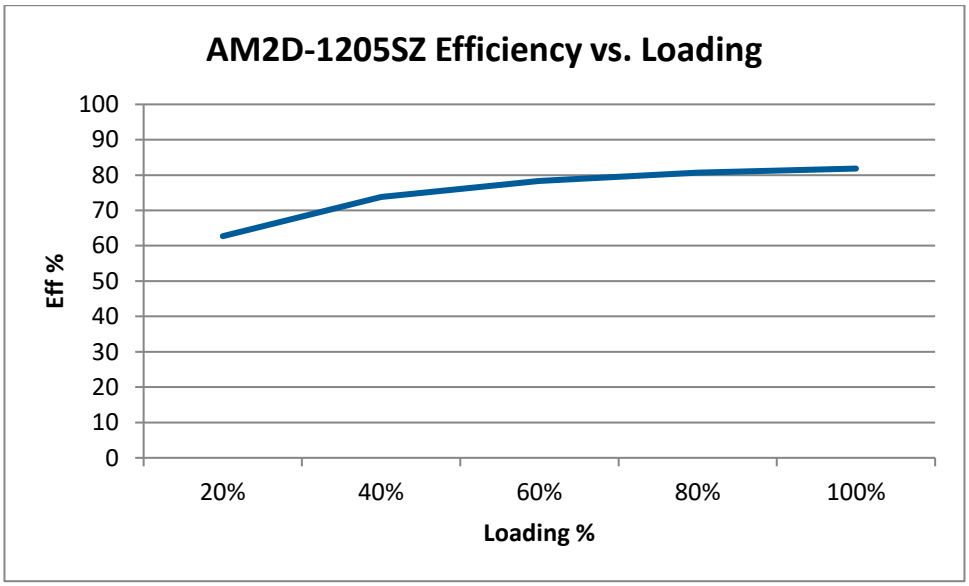
Dual Separated Output models

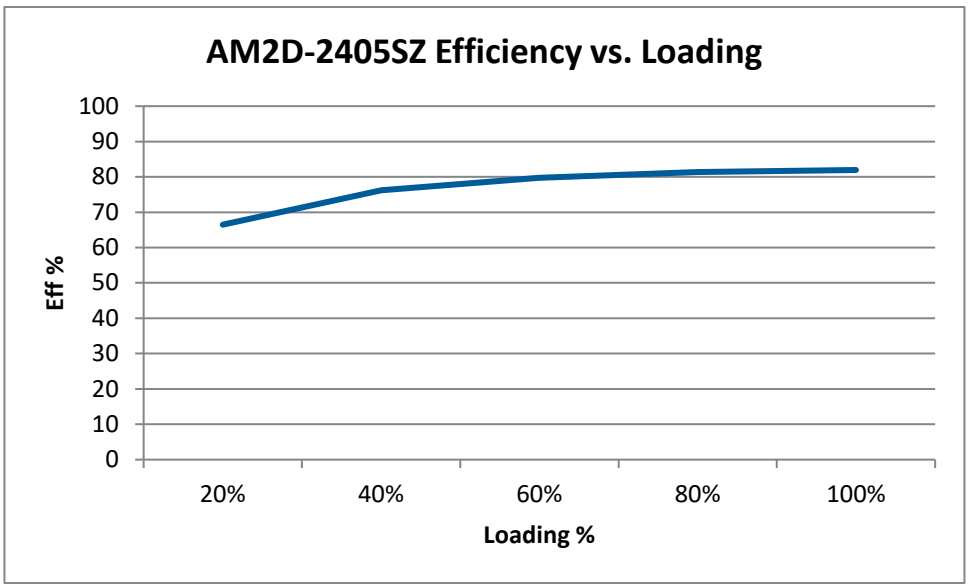


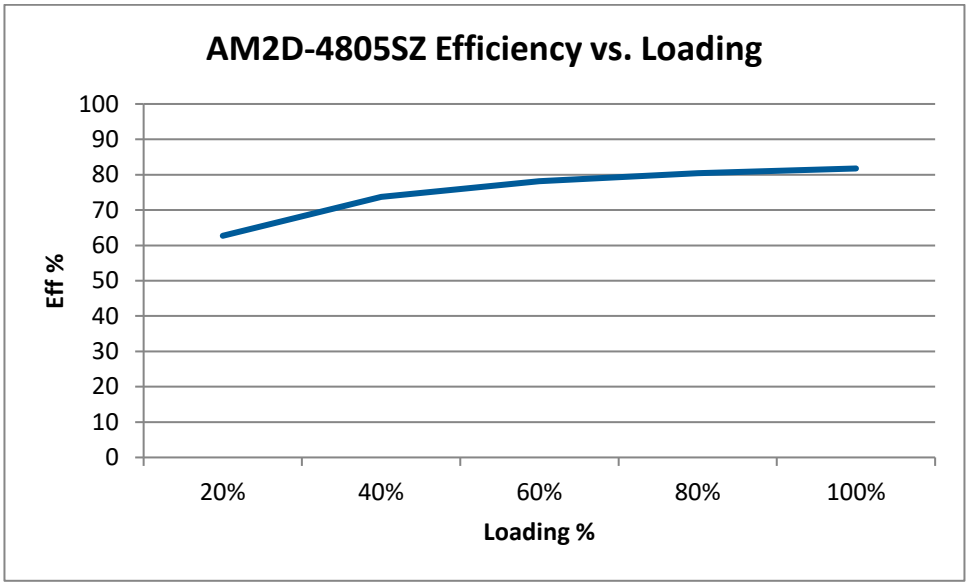
Model	C1	C2	L1	C3	C4	C5
05xxxx 12xxxx	470 µF/100V	2.2 µF/100V	18 µH	-	-	-
24xxxx	470 µF/100V	2.2 µF/100V	18 µH	2.2 µF/100V	470 pF/3kV	470 pF/3kV

Typical Efficiency Chart Examples









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