

**Model**

# AAD600S

600 Watts<sub>max</sub> output power

Power Factor Correction

Single Output

**Switch Mode Power Supply**

**H.A.L.T.** Highly Accelerated Life Testing  
TESTED

## Electrical Specifications

|                      |                                                                                                                              |
|----------------------|------------------------------------------------------------------------------------------------------------------------------|
| Input Voltage:       | 85-264 VAC, 47-63 Hz                                                                                                         |
| Input Current:       | <6.5A RMS @ 115 VAC @ full load<br><3.5A RMS @ 230 VAC @ full load<br>9.0A RMS @ 85 VAC @ full load                          |
| Inrush Current:      | <20A, pk @ 110 VAC, active soft start<br><40A, pk @ 220 VAC, active soft start<br>(Active independent of cold or warm start) |
| Power Factor:        | >0.99 @ full load @ 230VAC input                                                                                             |
| Harmonic Distortion: | Meets IEC1000-3-2                                                                                                            |
| EMI Filtering:       | Meets CISPR 11 and 22 and FCC Part 15 Class B (conducted)                                                                    |
| Input Protection:    | Internal AC line fuse; 250 VAC, 10A                                                                                          |
| Surge Withstand:     | Meets EN61000-4-4 Level 3 and EN61000-4-5 Level 3                                                                            |
| Output Power:        | Up to 600W continuous                                                                                                        |
| Line Regulation:     | ± 0.1%                                                                                                                       |
| Load Regulation:     | ±0.25%                                                                                                                       |
| PARD:                | <1% or 250mV<br>20MHz bandwidth                                                                                              |
| Hold-up Time:        | >16 ms @ full load                                                                                                           |
| Output Polarity:     | Output is floating                                                                                                           |
| Minimum Load:        | None                                                                                                                         |
| Transient Response:  | 2% for 25% load change @ 1A/μs                                                                                               |
| Output Rise Time:    | <100 ms (10% to 90%)                                                                                                         |
| Remote Sense:        | Standard                                                                                                                     |
| Current Share:       | Within 5%                                                                                                                    |
| Remote On/Off:       | Ground or TTL <sub>LOW</sub> = OFF<br>Open or TTL <sub>HIGH</sub> = ON                                                       |



|                            |                                                                                                               |
|----------------------------|---------------------------------------------------------------------------------------------------------------|
| AC Power Fail:             | TTL <sub>LOW</sub> logic "0" at least 2 ms before DC output drops 5% (without signal jitter). Open collector. |
| DC OK:                     | Open collector when output voltage is above 95% of rated                                                      |
| Overcurrent/Short Circuit: | Square current limit; 105-130% of rated                                                                       |
| Overvoltage Protection:    | Factory set, 125% ±5% cycle AC to reset                                                                       |
| Reverse Voltage:           | Reverse current up to rated outputs                                                                           |
| Thermal Protection:        | Auto off; auto reset upon cool down                                                                           |
| Efficiency:                | Up to 92%                                                                                                     |
| MTBF:                      | MIL-STD-HDBK 217E<br>200,000 hours @ 25°C, ground benign, Highly Accelerated Life Testing                     |

## Available Voltage Outputs\*

| Voltage Codes | Voltages (Volts) | Continuous Current (Amps) |
|---------------|------------------|---------------------------|
| <b>-4</b>     | <b>12</b>        | <b>42</b>                 |
| -5            | 15               | 36                        |
| <b>-6</b>     | <b>24</b>        | <b>23</b>                 |
| -7            | 28               | 20                        |
| -8            | 36               | 16                        |
| <b>-9</b>     | <b>48</b>        | <b>12.5</b>               |

\* Consult factory for other voltages and OEM quantities.

Note: Standard models are shown **bold**

## PART # STRUCTURE:

**MODEL** - **VOLTAGE CODE** - **OPTION CODES** (See back)  
 - **V1** -  
**AAD600S** - **X** - **ABC....**

Example: Part Number **AAD600S-8-CF** = 600W Power Factor Corrected, 36V @ 16A with sealed pots and overcurrent foldback mode.

CLICK HERE TO SEE THE AAD600S CODE TABLE AND AVAILABLE OPTIONS.

