

Switch Mode Power Supply

Model

AAD600S

600 Watts_{max} output power

Power Factor Correction

Single Output

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 <3.5A RMS @ 230 VAC @ full load 9.0A RMS @ 85 VAC @ full load
Inrush Current:	<20A, pk @ 110 VAC, active soft start <40A, pk @ 220 VAC, active soft start (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 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 _{LOW} = OFF Open or TTL _{HIGH} = ON



AC Power Fail:	TTL _{LOW} 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 200,000 hours @ 25°C, ground benign, Highly Accelerated Life Testing

Available Voltage Outputs*

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

* 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.](#)

Model

AAD600S



Options (code)

- | | |
|----------------------------------|---------------------------------|
| DC OK Invert (U) | PF Invert (B) |
| Metric Mounting (M) | Remote On/Off Invert (S) |
| OR-ing Diodes (O) | Overcurrent Hiccup Mode (D) |
| Droop Current Share (A) | Overcurrent Latch-off Mode (E) |
| Gold Plated Signal Connector (G) | Overcurrent Foldback Mode (F) |
| Sealed Pots (C) | Standby Power (5VDC @ 1A) (P)** |

**Voltage available as long as AC input is present

Certifications

- NRTL*** to UL60950-1, CSA C22.2 60950-1-03
- BAUART Certification to EN60950-1
- CB Test Report in Accordance with IEC60950-1
- CE Declaration to Low Voltage Directive 72/73/EEC

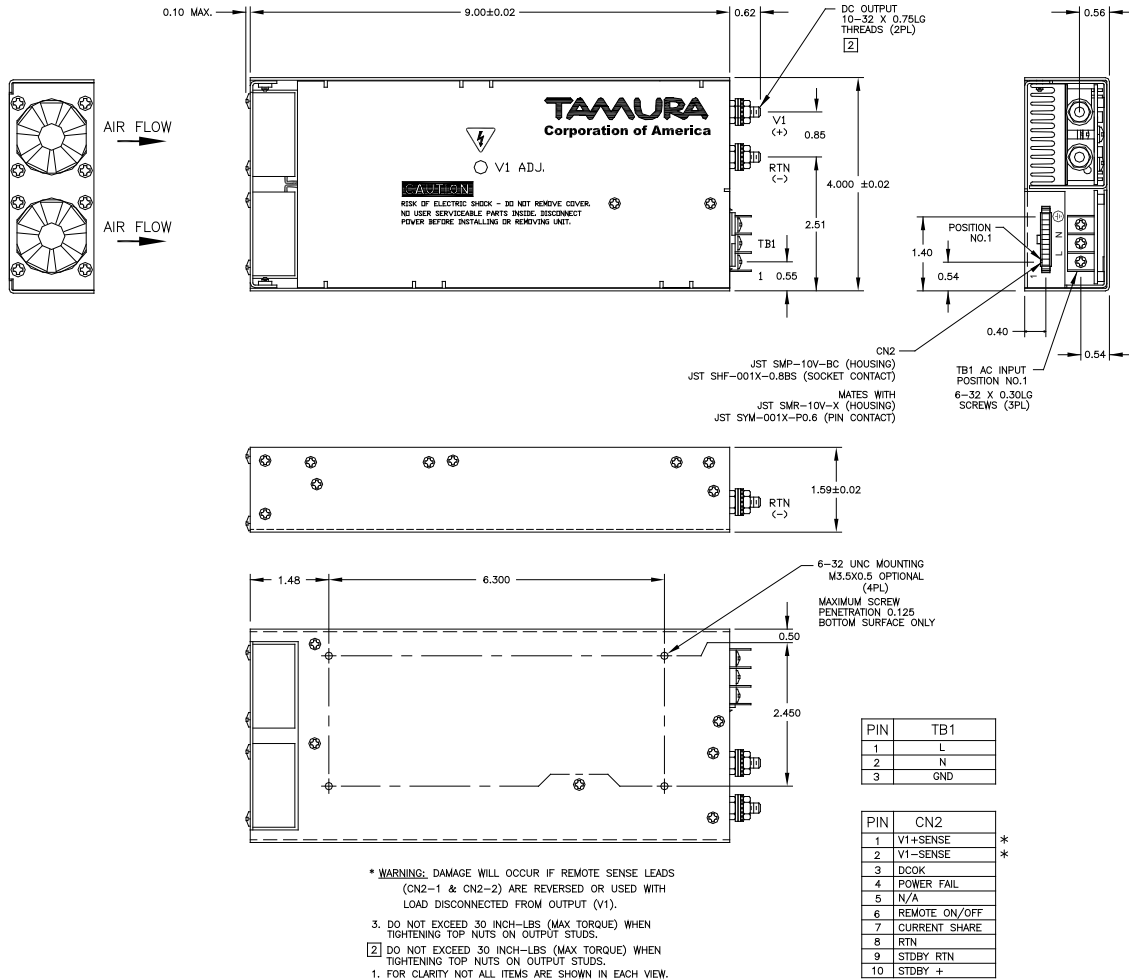
*** Nationally Recognized Test Laboratory

Compliance

- | | |
|---|--------------------------------|
| EN61000-4-5 Level 3 | EN61000-4-2 Level 2 |
| EN61000-3-2 | EN61000-4-2 Level 3 (Air Only) |
| EN61000-4-4 Level 3 | EN61000-4-11 |
| CISPR 11 and 22 FCC Part 15 Class B (conducted) | |

Physical Specifications

- | | |
|---------------------|--|
| Dimensions: (HxWxL) | 1.59" x 4" x 9" |
| Operating Temp: | 0 to 70°C; rated power to 50°C derate linearly to 50% at 70°C. |
| Relative Humidity: | 5% to 90%, non-condensing |
| Storage: | -50 to 85°C/20-90% RH |
| Altitude: | 6,561' operating;
40,000' storage |



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