TAMURA Corporation of America

Switch Mode Power Supply

Model

AAD600S

600 Watts$_{max}$ output power

Power Factor Correction

Single Output

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



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 independant 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
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.

SEE 3rd PAGE FOR THE AAD600S CODE TABLE AND AVAILABLE OPTIONS.

TAMURA Corporation of America

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*

Safety Compliance

IEC / EN / UL / CSA 60950-1
CE Declaration to Low Voltage Directive 2006/95/EC and RoHS Directive 2011/65/EU

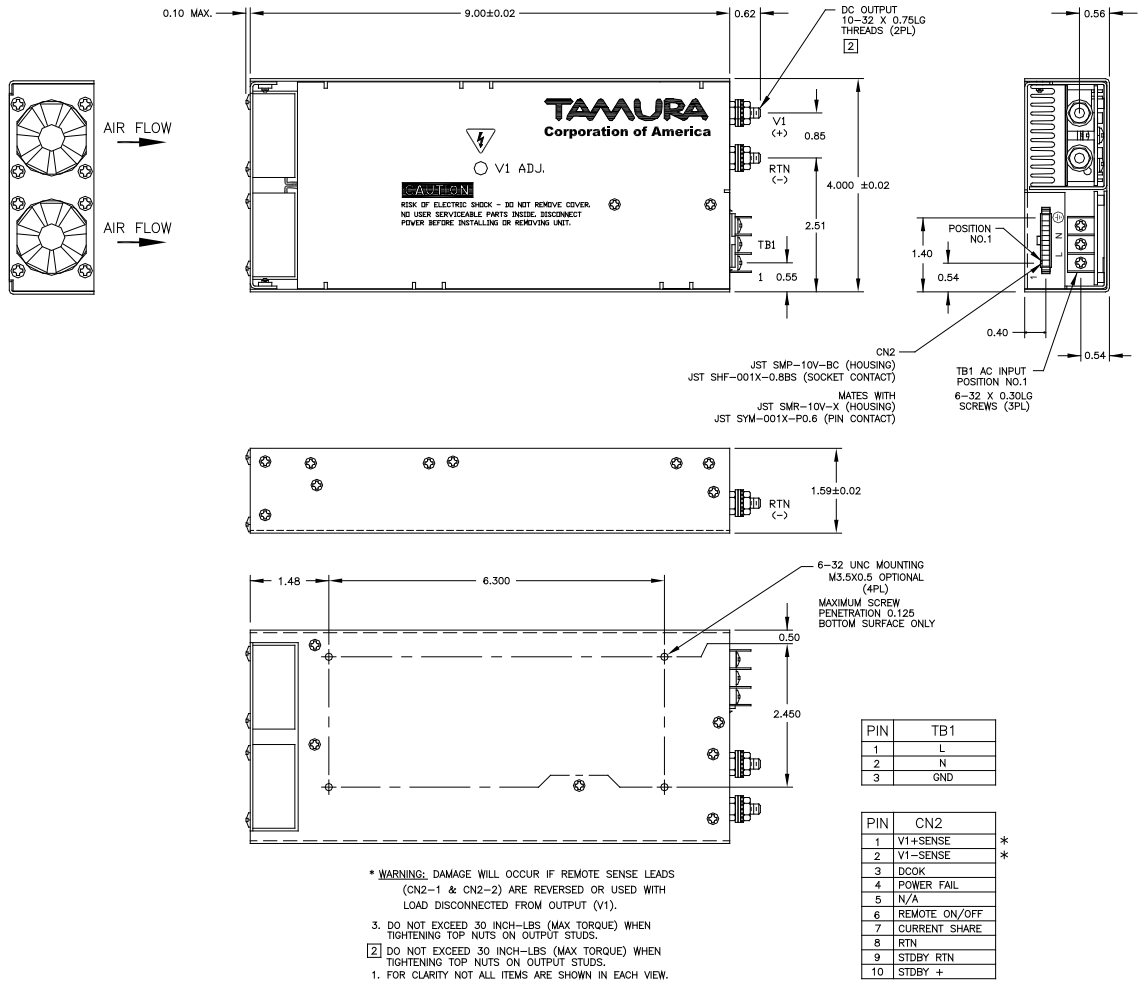
Surge & ESD Test Levels

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

Meets Class B conducted limits per CISPR 11/22 and CFR 15 subpt B

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



PIN	TB1
1	L
2	N
3	GND

PIN	CN2	
1	V1+SENSE	*
2	V1-SENSE	*
3	DCOK	
4	POWER FAIL	
5	N/A	
6	REMOTE ON/OFF	
7	CURRENT SHARE	
8	RTN	
9	STDBY RTN	
10	STDBY +	

* WARNING: DAMAGE WILL OCCUR IF REMOTE SENSE LEADS (CN2-1 & CN2-2) ARE REVERSED OR USED WITH LOAD DISCONNECTED FROM OUTPUT (V1).

3. DO NOT EXCEED 30 INCH-LBS (MAX TORQUE) WHEN TIGHTENING TOP NUTS ON OUTPUT STUDS.

[2] DO NOT EXCEED 30 INCH-LBS (MAX TORQUE) WHEN TIGHTENING TOP NUTS ON OUTPUT STUDS.

1. FOR CLARITY NOT ALL ITEMS ARE SHOWN IN EACH VIEW.

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Item 40619 Rev A

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ISO 9001

ANSI-RAB QMS ACCREDITED BSI REGISTERED
FM 32227

PRODUCT CODE TABLE

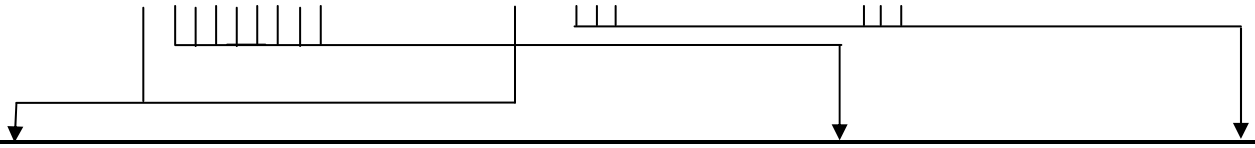
RoHS

AAD600S Series Part Number Code Table

Standard Models AAD600S-X-YYYYYY

Tailored Models AAD600S-X-60ZZZ

Custom Models AAD600S-61ZZZ



P/N Codes	Output Voltage and Current Codes		Standard Options
DC Output Voltage Code	"X" Channel (V1) Volts	Amps	"Y" Code Description
4	12.0	42.0	A Droop Current Share B PF Invert C Sealed pot D OCP Hicc-up Mode E OCP latch off mode F OCP fold back mode G Gold plated signal connector M Metric Mounting O OR-ing Diode P 5Vdc, 1A Standby Output S Remote On/Off Invert (Open is off) U DCOK Invert
5	15.0	36.0	
6	24.0	23.0	
7	28.0	20.0	
8	36.0	16.0	
9	48.0	12.5	
			Tailored Units (no safety changes: omit "X" code for non-standard output) --- "60ZZZ" : "Z" – Factory Assigned P/N Harnesses Added, Special test data … ETC….
			Custom Units (safety critical changes) --- "61ZZZ" : "Z" – Factory Assigned P/N ETC…..

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