# imall

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### Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



ANG Corporation of America

#### Miniature Switch Mode Power Supply

Model D16160 Watts output power

**Power Factor Correction** 

#### Parallel/Redundant Operation

#### Up to 88% Efficiency

#### **Electrical Specifications**

Input Voltage:	90-264 VAC, 47-63 Hz					
Input Current:	<2A RMS @ 115 VAC @ full load <1A RMS @ 230 VAC @ full load					
Inrush Current:	<35A, pk @ 132 VAC @ cold start <75A, pk @ 264 VAC @ cold start					
Power Factor:	>0.98 @ full load @ 115/230VAC input					
Harmonic Distortion:	Meets EN61000-3-2					
EMI Filtering:	Meets CISPR 11 and 22 and FCC Part 15 Class B (conducted)					
Input Protection:	Internal AC line fuse; 250 VAC, 4.0A					
Surge Withstand:	Meets EN61000-4					
Output Power:	160W with 20CFM air; 80W Convection cooled (consult factory for current ratings)					
Line Regulation:	± 0.3%					
Load Regulation:	± 1% for V1 and V2 ± 7% for V3; ± 5% for V4					
PARD:	Greater of 1% or 50mV 20MHz bandwidth					
Hold-up Time:	>20 ms @ full load					
Turn-on Delay:	<2 seconds					
Output Polarity:	See Voltage Chart					
Minimum Load:	10% for V1 and V2 5% for V3 and V4					
Transient Response:	Greater of 150mV or 3% for 25% load change @ 1A/ $\mu s$ (V1 and V2)					

#### Available Voltage Outputs\*



Up to 400mV of cable drop TTL<sub>LOW</sub> logic "0" at least 5 ms before DC output drops 5% (without signal jitter).

<10mA sink current for Power Fail "0". <1mA source current for Power Fail "1".

<5% overshoot with remote sense at output terminals

Load currents of V1 and V2 for similar units can be shared @ <±5% of total load

Factory set, 125% ±5% on V1 and V2 cycle AC to reset

All outputs are auto recovery

Reverse current up to rated outputs

Standard operation interrupt (hiccup mode)

Up to 88%

MIL-STD-HDBK 217E >200,000 hours @ 25°C Highly Accelerated Life Testing

Voltage Codes	V1 Voltages (Volts)	V1 Currents (Amps)	V2 Voltages (Volts)	V2 Currents (Amps)	V3 Voltages (Volts)	V3 Currents (Amps)	V4 <sup>**</sup> Voltages (Volts)	V4 Currents (Amps)
-1	+1.8	16	+1.8	14	+1.8	3	-1.8	2
-2	+3.3	16	+3.3	14	+3.3	3	-3.3	2
-3	+5	16	+5	14	+5	3	-5	2
-4	+12	6	+12	6	+12	3	-12	2
-5	+15	5	+15	5	+15	2.5	-15	2
-6			+24	3	+24	1.75	-24	1.5
-7			+28	2.5	+28	1.5	-28	1
-8			+36	2	+36	1.5	-36	1
-9			+48	1.5	+48	1	-48	1

AC Power Fail:

Overshoot/Undershoot:

Current Share (option):

Overvoltage Protect:

Reverse Voltage:

Efficiency:

MTBF:

Short Circuit Protection:

Case Power Protection:

\* Consult factory for other voltages and OEM quantities.

\*\* Standard Polarity for V4 is negative (-). V4 is available with positive polarity as a Tailored or Custom model.

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Note: Standard models are 3244, 3255, 3264, 3404 and 3464

#### PART # STRUCTURE:

- MODEL AAD160
- V1 V2 V3 V4

ABC .....

**OPTION CODES** (See back)

XXXX Example: Model Number AAD160-3244-AM = 160W Power Factor Corrected, (V1) +5V @ 16A, (V2) +3.3V @ 14A, (V3) +12V @ 3A and (V4) -12V @ 2A with Current Sharing and Metric Mounting.

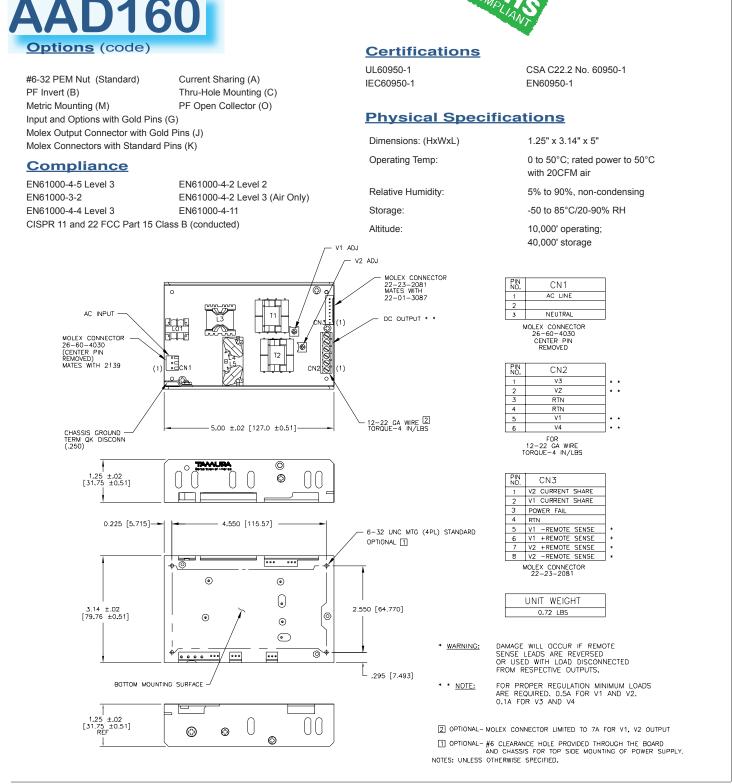
CLICK HERE TO SEE THE AAD160 CODE TABLE AND AVAILABLE OPTIONS.

VOLTAGE CODE



Model

## ANURA Corporation of America



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TAMURA CORPORATION OF AMERICA 1040 South Andreasen Drive, STE, 100 Escondido, CA 92029-1951 (951) 699-1270 / Fax: (951) 676-9482 (800) 472-6624 www.tamuracorp.com

TAVV@ISA