

Model

Miniature Switch Mode Power Supply

AAD130

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

130 Watts output power

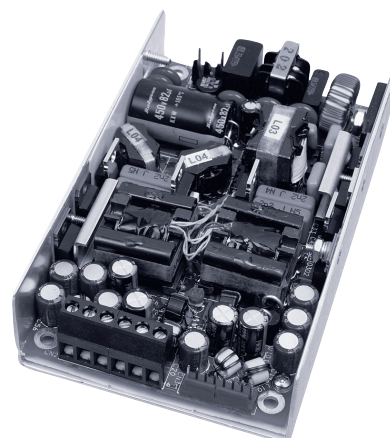
Power Factor Correction

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
Output Power:	130W with 15CFM air; 80W Convection cooled (consult factory for current ratings)
Line Regulation:	± 0.3%
Load Regulation:	± 1% for V1 and V2 ± 5% for V3 and 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:	>0.5A for V1 and V2 >0.1A for V3 and V4
Transient Response:	Greater of 150mV or 3% for 25% load change @ 1A/μs (V1 and V2)
Output Rise Time:	<100 ms (10% to 90%)



Remote Sense:	Standard on V1 and V2 Up to 400mV of cable drop
AC Power Fail:	TTL _{LOW} 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".
Overshoot/Undershoot:	<5% overshoot with remote sense at output terminals
Current Share (option):	Load currents of V1 and V2 for similar units can be shared @ <±5% of total load
Overvoltage Protect:	Factory set, 125% ±5% on V1 and V2 cycle AC to reset
Short Circuit Protection:	All outputs are auto recovery
Reverse Voltage:	Reverse current up to rated outputs
Case Power Protection:	Standard operation interrupt (hiccup mode)
Efficiency:	Up to 88%
MTBF:	MIL-STD-HDBK 217E >200,000 hours @ 25°C Highly Accelerated Life Testing

Available Voltage Outputs*

Voltage Codes	V1 Voltages (Volts)	V1 Currents (Amps)	V2 Voltages (Volts)	V2 Currents (Amps)	V3 Voltages (Volts)	V3 Currents (Amps)	V4 ** Voltages (Volts)	V4 Currents (Amps)
-1	+1.8	14	+1.8	16	+1.8	1.5	-1.8	1.5
-2	+3.3	14	+3.3	16	+3.3	1.5	-3.3	1.5
-3	+5	14	+5	14	+5	1.5	-5	1.5
-4			+12	5	+12	1.5	-12	1.5
-5					+15	1.5	-15	1.5
-6					+24	1.5	-24	1.5

* 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.

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

PART # STRUCTURE:

MODEL - VOLTAGE CODE - OPTION CODES (See back)
- V1 V2 V3 V4 -
AAD130 - X X X X - ABC...

Example: Part Number **AAD130-3244-AM** = 130W Power Factor Corrected, (V1) +5V @ 14A, (V2) +3.3V @ 16A, (V3) +12V @ 1.5A and (V4) -12V @ 1.5A with Current Sharing and Metric Mounting.

SEE 3rd page for AAD130 CODE TABLE AND AVAILABLE OPTIONS.

Model

AAD130

Options (code)

#6-32 PEM Nut (Standard) Current Sharing (A)
 PF Invert (B) Thru-Hole Mounting (C)
 Metric Mounting (M) PF Open Collector (O)
 Input and Options with Gold Pins (G)
 Molex Output Connector with Gold Pins (J)
 Molex Connectors with Standard Pins (K)

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 47 CFR 15 subpt B

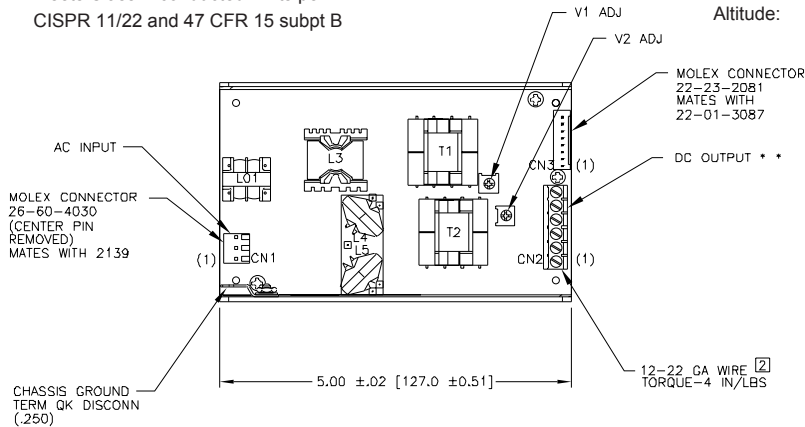


Safety Compliance

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

Physical Specifications

Dimensions: (HxWxL) 1.25" x 3.14" x 5"
 Operating Temp: 0 to 50°C; rated power to 50°C
 with 15CFM air
 Relative Humidity: 5% to 90%, non-condensing
 Storage: -50 to 85°C/20-90% RH
 Altitude: 6561
 40,000' storage



PIN NO.	CN1
1	AC LINE
2	
3	NEUTRAL

MOLEX CONNECTOR
 26-60-4030
 CENTER PIN
 REMOVED

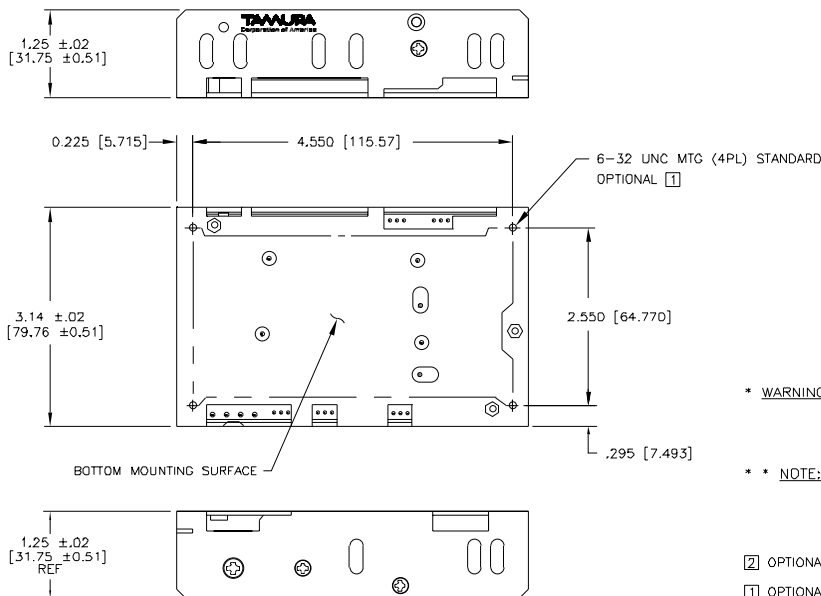
PIN NO.	CN2	
1	V3	*
2	V2	*
3	RTN	*
4	RTN	*
5	V1	*
6	V4	*

FOR
 12-22 GA WIRE
 TORQUE-4 IN/LBS

PIN NO.	CN3	
1	V2 CURRENT SHARE	
2	V1 CURRENT SHARE	
3	POWER FAIL	
4	RTN	
5	V1 -REMOTE SENSE	*
6	V1 +REMOTE SENSE	*
7	V2 +REMOTE SENSE	*
8	V2 -REMOTE SENSE	*

MOLEX CONNECTOR
 22-23-2081

UNIT WEIGHT
0.72 LBS



* **WARNING:** DAMAGE WILL OCCUR IF REMOTE SENSE LEADS ARE REVERSED OR USED WITH LOAD DISCONNECTED FROM RESPECTIVE OUTPUTS.

* **NOTE:** FOR PROPER REGULATION MINIMUM LOADS ARE REQUIRED. 0.5A FOR V1 AND V2. 0.1A FOR V3 AND V4

[2] OPTIONAL- MOLEX CONNECTOR LIMITED TO 7A FOR V1, V2 OUTPUT

[1] OPTIONAL- #6 CLEARANCE HOLE PROVIDED THROUGH THE BOARD AND CHASSIS FOR TOP SIDE MOUNTING OF POWER SUPPLY.
 NOTES: UNLESS OTHERWISE SPECIFIED.

AAD130 Power Supply Series

Standard Models

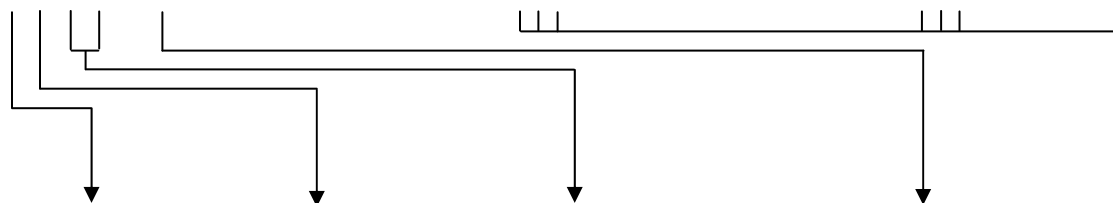
AAD130-V W X X-Y₁...Y_n

Tailored Models

AAD130-60ZZZ

Custom Models

AAD130 -61ZZZ



Codes	Voltage and Current Ratings						Standard Options
	“V” Channel		“W” Channel		“X” Channels		“Y” Code Descriptions
	(V1) Volts	Amps	(V2) Volts	Amps	(V3 and V4) *** Volts	Amps	
1	+1.8	14	+1.8	16	1.8	1.5	A Current Sharing B PF Invert C Through Hole Mounting* G = Gold Input and Option Connector Pins J = Molex Output Connector with Gold Pins** K = Molex Output Connector with Standard Pins** M = Metric Mounting* O = PF Open Collector *Standard Pemnut mounting is standard **7A MAX current for V1, V2 outputs
2	+3.3	14	+3.3	16	3.3	1.5	
3	+5	14	+5	14	5	1.5	
4	Not Available		+12	5	12	1.5	
5	Not Available		Not Available		15	1.5	
6	Not Available		Not Available		24	1.5	
0	Not Used		Not Used		Not Used		
***NOTES: 1. Standard polarity for V4 is negative (-). 2. V4 is available with positive (+) polarity as Tailored or Custom model. 3. V3 is available only with positive (+) polarity.							Tailored Units (No safety changes) ----- 60ZZZ, where ZZZ = Factory Assigned Number Harnesses Added, Special test data, Etc.
							Custom Units (Safety critical changes) ----- 61ZZZ, where ZZZ = Factory Assigned Number

AMEYA360

Components Supply Platform

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