



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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



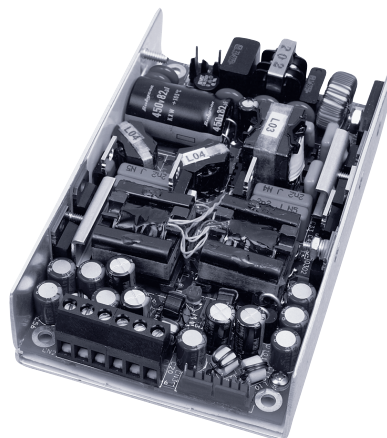
Model

Miniature Switch Mode Power Supply

AAD130SD

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

- 130 Watts output power
- Power Factor Correction
- Parallel/Redundant Operation
- Up to 90% Efficiency



Electrical Specifications

Input Voltage:	90-264 VAC, 47-63 Hz	Output Rise Time:	<250 ms (10% to 90%)
Input Current:	<2A RMS @ 115 VAC @ full load <1A RMS @ 230 VAC @ full load	Remote Sense:	Standard on V1 and V2 Up to 400mV of cable drop
Inrush Current:	<35A, pk @ 132 VAC @ cold start <75A, pk @ 264 VAC @ cold start	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".
Power Factor:	>0.98 @ full load @ 115/230VAC input	Overshoot/Undershoot:	<5% overshoot with remote sense at output terminals
Harmonic Distortion:	Meets EN61000-3-2	Current Share (option):	Load currents of V1 and V2 for similar units can be shared @ $\pm 5\%$ of total load
EMI Filtering:	Meets CISPR 11 and 22 and FCC Part 15 Class B (conducted)	Overvoltage Protect:	Factory set, 125% $\pm 5\%$ on V1 and V2 cycle AC to reset
Input Protection:	Internal AC line fuse; 250 VAC, 4.0A	Short Circuit Protection:	All outputs are auto recovery
Surge Withstand:	Meets EN61000-4	Reverse Voltage:	Reverse current up to rated outputs
Output Power:	Up to 144W with 15CFM air; 80W Convection cooled (consult factory for current ratings)	Case Power Protection:	Standard operation interrupt (hiccup mode)
Line Regulation:	$\pm 0.3\%$	Efficiency:	Up to 90%
Load Regulation:	$\pm 1\%$ for V1 and V2	MTBF:	MIL-STD-HDBK 217E >200,000 hours @ 25°C Highly Accelerated Life Testing
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:	7W (Single Output) 3.5W each (Dual Output)		
Transient Response:	Greater of 150mV or 3% for 25% load change @ 1A/ μ s (V1 and V2)		

Available Voltage Outputs*

Dual Output Voltage Codes	Dual Output V1 Voltages (Volts)	Dual Output V1 Currents (Amps)	Dual Output V2 Voltages (Volts)	Dual Output V2 Currents (Amps)	Single Output Voltage Codes	Single Output V1 Voltages (Volts)	Single Output V1 Currents (Amps)
-2	3.3	16	3.3	16	-20	3.3	32
-3	5	14	5	14	-30	5	26
-4	12	6	12	6	-40	12	12
-5	15	5	15	5	-50	15	9
-6	24	3	24	3	-60	24	6
-7	28	2.5	28	2.5	-70	28	5
-8	36	2	36	2	-80	36	4
-9	48	1.5	48	1.5	-90	48	3

* Consult factory for other voltages and OEM quantities.

Note: Standard Dual Output Models are -34 and -46

Note: Standard Single Output Models are shown bold

PART # STRUCTURE:

MODEL - **VOLTAGE CODE** - **OPTION CODES** (See back)
 - V1 -
AAD130SD - **X X** - **ABC....**

Example1: Part Number **AAD130SD-56-AC** = 130W Dual Output, Power Factor Corrected, 15V @ 5A and 24V @ 3A with Current Sharing and a Thruhole Chassis.

Example2: Part Number **AAD130SD-30-BM** = 130W Single Output, Power Factor Corrected, 5V @ 26A with PF Invert and Metric Mounting.

[CLICK HERE TO SEE THE AAD130SD CODE TABLE AND AVAILABLE OPTIONS.](#)

Model

AAD130SD



Options (code)

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

Certifications

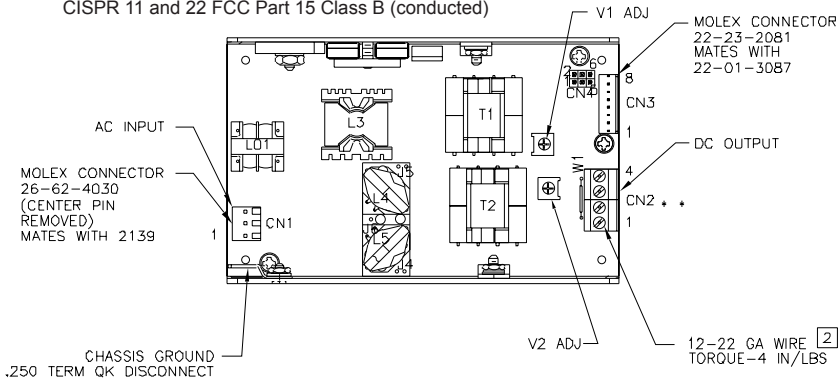
- UL60950-1
- IEC60950-1
- CSA C22.2 No. 60950-1
- EN60950-1

Compliance

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

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: 10,000' operating; 40,000' storage



PIN NO.	CN1
1	AC LINE
2	
3	NEUTRAL

MOLEX CONNECTOR 26-60-4030 CENTER PIN REMOVED

PIN NO.	CN2
1	V2
2	RTN
3	RTN
4	V1

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 *

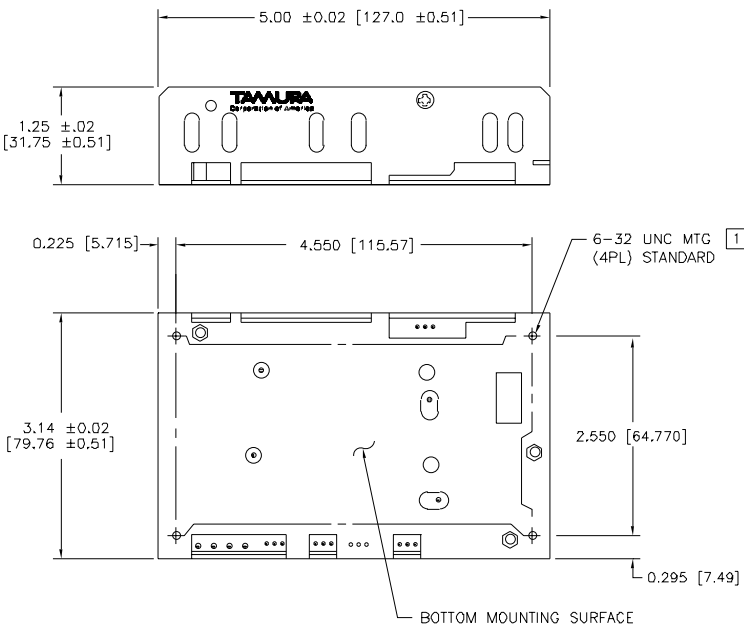
PIN 1 & PIN 2 ARE CONNECTED INTERNALLY

PIN 5 & PIN 8 ARE CONNECTED INTERNALLY ** FOR SINGLE OUTPUT MODELS

PIN 6 & PIN 7 ARE CONNECTED INTERNALLY

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:** TO INSURE PROPER REGULATION, UNIT REQUIRES A MINIMUM LOAD OF 7 WATTS FOR SINGLE OUTPUT MODELS AND 3.5 WATTS ON EACH OUTPUT FOR DUAL OUTPUT MODELS.

*** **NOTE:** V1 AND V2 ARE CONNECTED INTERNALLY FOR SINGLE OUTPUT MODELS

[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

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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

