TAMURA Corporation of America

Miniature Switch Mode Power Supply

Model

AAD130

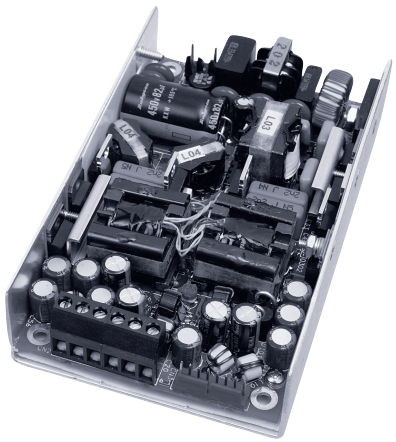
130 Watts output power

Power Factor Correction

Parallel/Redundant Operation

Up to 88% Efficiency

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



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:	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.

CLICK HERE TO SEE THE AAD130 CODE TABLE AND AVAILABLE OPTIONS.

TAMURA Corporation of America

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)

Compliance

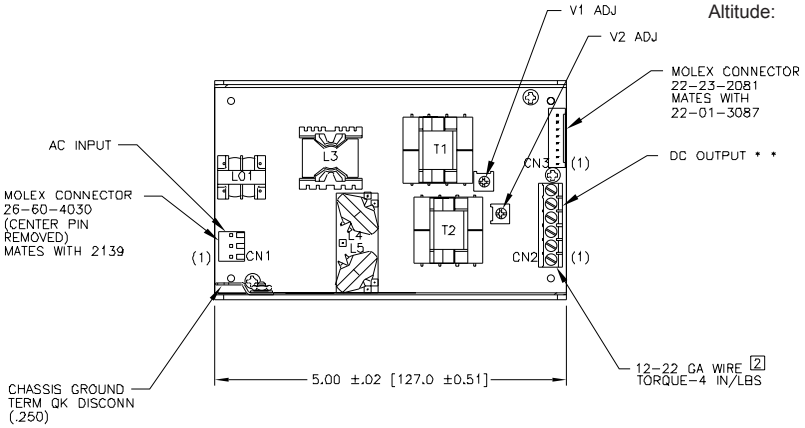
EN61000-4-5 Level 3
EN61000-4-2 Level 2
EN61000-3-2
EN61000-4-2 Level 3 (Air Only)
EN61000-4-4 Level 3
EN61000-4-11
CISPR 11 and 22 FCC Part 15 Class B (conducted)

Certifications

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

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

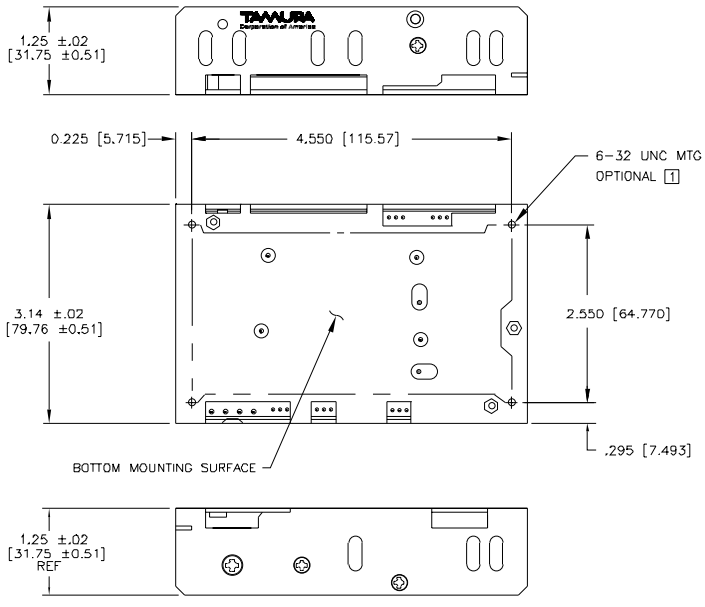
PIN NO.	CN2	
1	V3	* *
2	V2	* *
3	RTN	
4	RTN	
5	V1	* *
6	V4	* *

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.

© Copyright 2011 TAMURA CORPORATION OF AMERICA. Specifications subject to change without notice.

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

ISO 9001

ANSI-RAB QMS ACCREDITED BSI REGISTERED FM 32227

ООО «НИОКРсистемс» - это оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов. Реализуемая нашей компанией продукция насчитывает более полумиллиона наименований.

Благодаря этому наша компания предлагает к поставке практически не ограниченный ассортимент компонентов как оптовыми, мелкооптовыми партиями, так и в розницу.

Благодаря развитой сети поставщиков, помогаем в поиске и приобретении экзотичных или снятых с производства компонентов.

Наша компания это:

- Гарантия качества поставляемой продукции
- Широкий ассортимент
- Минимальные сроки поставок
- Техническая поддержка
- Подбор комплектации
- Индивидуальный подход
- Гибкое ценообразование
- Работаем по 275 ФЗ

ООО «НИОКР СИТЕМС»
Москва, 125362, Россия, ул. Вишневая, д. 9, к. 1, Блок 104 а и 104 в

Телефон: 8 (495) 268-14-82
Email: n@nsistems.ru

ИНН: 7735154786
ОГРН: 1167746717709