

ANUXA Corporation of America

Model

Miniature Switch Mode Power Supply

D130SE

130 Watts output power

Power Factor Correction

Parallel/Redundant Operation

Up to 90% 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: Up to 144W with 15CFM air; 80W Convection

cooled (consult factory for current ratings)

Line Regulation: ± 0.3%

± 1% for V1 and V2 Load Regulation:

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/µs (V1 and V2)

Highly Accelerated Life Testing



Output Rise Time: <250 ms (10% to 90%) Remote Sense Standard on V1 and V2

Up to 400mV of cable drop

TTL_{LOW} logic "0" at least 5 ms before DC AC Power Fail: 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 90%

MTBF: MIL-STD-HDBK 217E

>200,000 hours @ 25°C Highly Accelerated Life Testing

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 XX 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

See 3rd page for AAD130SD CODE TABLE AND AVAILABLE OPTIONS.





MURA Corporation of America

Model

)130SE

Options (code

#6-32 PEM Nut (Standard) Current Sharing (A) PF Invert (B) Thru-Hole Mounting (C) Metric Moun ing (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)

Safety Compliance

IEC / EN / UL / CSA 60950-1

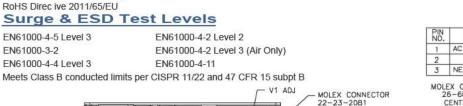
CE Declaration to Low Voltage Directive 2006/95/EC and

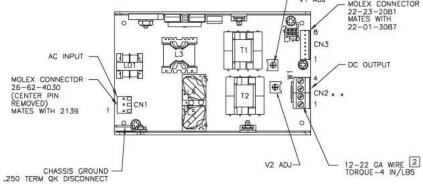
Surge & ESD Test Levels

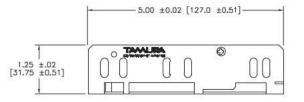
EN61000-4-5 Level 3

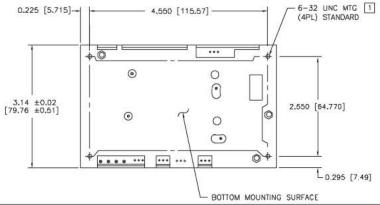
EN61000-3-2

EN61000-4-4 Level 3











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 | V2 | |
| | 2 | RTN | |
| | 3 | RTN | |
| *** | 4 | V1 | ** |

| PIN NO. | CN3 | 1 |
|------------|------------------|---|
| 1 | V2 CURRENT SHARE | |
| 2 | V1 CURRENT SHARE | 1 |
| 3 | POWER FAIL | 1 |
| 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

** FOR SINGLE OUTPUT MODELS

PIN 5 & PIN 8 ARE CONNECTED INTERNALLY

PIN 6 & PIN 7 ARE CONNECTED INTERNALLY

| UNIT WEIGHT | |
|-------------|--|
| 0.72 LBS | |

* WARNING: DAMAGE WILL OCCUR IF REMOTE SENSE LEADS ARE REVERSED OR USED WITH LOAD

DISCONNECTED FROM RESPECTIVE OUTPUTS.

TO INSURE PROPER REGULATION, UNIT REQUIRES * * NOTE: A MINIMUM LOAD OF 7 WATTS FOR SINGLE

> OUTPUT MODELS AND 3.5 WATTS ON EACH OUTPUT FOR DUAL OUTPUT MODELS.

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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PRODUCT CODE TABLE



I. AAD130SD Configured For Single Output Models Tailored Models Custom

Standard Models AAD130SD-VW-YYYY

AAD130SD- 60ZZZ

Custom Models AAD130SD-61ZZZ

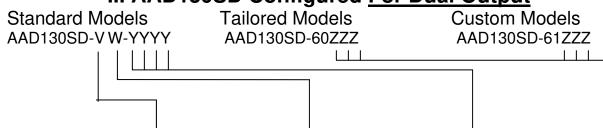
| | | <u> </u> | |
|--------------|----------------------|-----------------------|--|
| | Voltage and (| Standard Options | |
| V W Codes | Volts | Amps | Y Code Description |
| 10 20 | Not Available 3.3 | Not Available 32.0 | A Current Sharing B PF Invert C Through Hole Mounting* G = Input and Option Connectors with Gold Pins J = Molex Output Connector |
| 30 | 5.0 | 26.0 | with Gold Pins** K = Molex Output Connector with Standard Pins** |
| 40 | 12.0 | 12.0 | M = Metric Mounting* O = PF Open Collector |
| 50 | 15.0 | 9.5 | *Pemnut chassis mounting |
| 60 | 24.0 | 6.0 | is standard **14A MAX current |
| 70 | 28.0 | 5.0 | |
| 80 | 36.0 | 4.0 | Tailored Units (no safety changes) |
| 90 | 48.0 | 3.0 | Factory Assigned Number. Harnesses Added, Special test data, Etc |
| | | | Custom Units (safety critical changes) |
| | | | 61ZZZ, where ZZZ = Factory Assigned Number |



PRODUCT CODE TABLE



II. AAD130SD Configured For Dual Output



| | | | | <u> </u> | <u> </u> |
|---------|-----------------------------|---------------|-----------|------------------|--|
| | Voltage and Current Ratings | | | Standard Options | |
| V and W | V Channel | | W Channel | | Y Code Description |
| Codes | Volts | (V1) Amps | Volts | (V2) Amps | T Gode Bescription |
| 1 | Not Ava | ilable | Not Ava | ailable | A Current Sharing B PF Invert C Through Hole Mounting* G = Input and Option |
| 2 | 3.3 | 16 | 3.3 | 16 | Connectors with Gold Pins J = Molex Output Connector |
| 3 | 5.0 | 14 | 5.0 | 14 | with Gold Pins** K = Molex Output Connector |
| 4 | 12.0 | 6 | 12.0 | 6 | with Standard Pins** M = Metric Mounting* O = PF Open Collector |
| 5 | 15.0 | 5 | 15.0 | 5 | *Pemnut chassis mounting |
| 6 | 24.0 | 3 | 24.0 | 3 | is standard **7A MAX current for V1, V2 outputs |
| 7 | 28.0 | 2.5 | 28.0 | 2.5 | σαιραίδ |
| 8 | 36.0 | 2 | 36.0 | 2 | Tailored Units |
| 9 | 48.0 | 1.5 | 48.0 | 1.5 | (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 |