

Power For The New Technology

PS2475-YE

Total Power	300 Watts
Input Voltage	-40 to -72 VDC
Output	12V @ 25A

SPECIAL FEATURES

- -40 to -72 VDC input
- UL, CSA, TUV, BABT Recognized
- EN55022 Class A, FCC part 15 Class A
- N+1 Redundant with droop sharing
- OVP, OCP and OTP at output stage

ENVIRONMENTAL

Ambient Operating Temperature: 0°C to +50°C

Humidity: Up to 95% non-condensing

Temperature coefficient: $\pm 0.02\%$ / °C

Storage Temperature: -40°C to +85°C

Cooling: One self contained fan



ELECTRICAL SPECIFICATIONS

Input

Input..... -40 to -72 VDC
Inrush Current (-72 Vdc)..... < 15 Amps peak
Isolation..... 2500VDC (Input to Output)

Susceptibility specifications:

Complies with EN55022 & FCC Class A with minimum 5 dB margin

Efficiency..... 5% typical at full load and -40VDC input voltage

Output

DC Output..... Maximum continuous output power 300 Watts.

Line / Load Regulation..... < 5%

Ripple and Noise < 1% typical

Transient Response... 4% Maximum deviation;

MECHANICAL

8.5" L x 1.6" H x 4.0" W (216 mm x 40.6 mm x 102 mm)

Input connector: WAGO 231-603/023-000 or equivalent at front

Output connector: Molex P/N 15-06-0240 or equivalent at rear

Status signals and Indicators:

I²C interface and control

Two visual LED indicators identify power supply status.

The indicators are:

Input OK – green LED

Output OK – green LED



Rev A

Power For The New Technology

PIN ASSIGNMENT

Output

Over voltage protection 108% - 110% (Latching)
Over current protection 120% - 130% (Latching)

Over temperature protection (lockout)

Short Circuit Protection.....Will withstand a continuous short without damage.

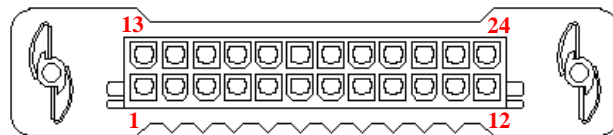
Minimum Load Rqmt.....See Voltage/Current chart.

No Load Operation.....No damage to supply when operating at no load.

Pin #	Signal
4, 5, 6, 16, 17, 18	12V Output
1, 2, 3, 13, 14, 15	12V Output RTN
9	AC Fail DC Fail Temp Fail
24	Fan OK
23	PS Present
11	I ² C Serial Data
12	I ² C Serial Clock
21	Address Input Line A0
20	Address Input Line A1
8	Address Input Line A2
22	Remote Shutdown (Active High)

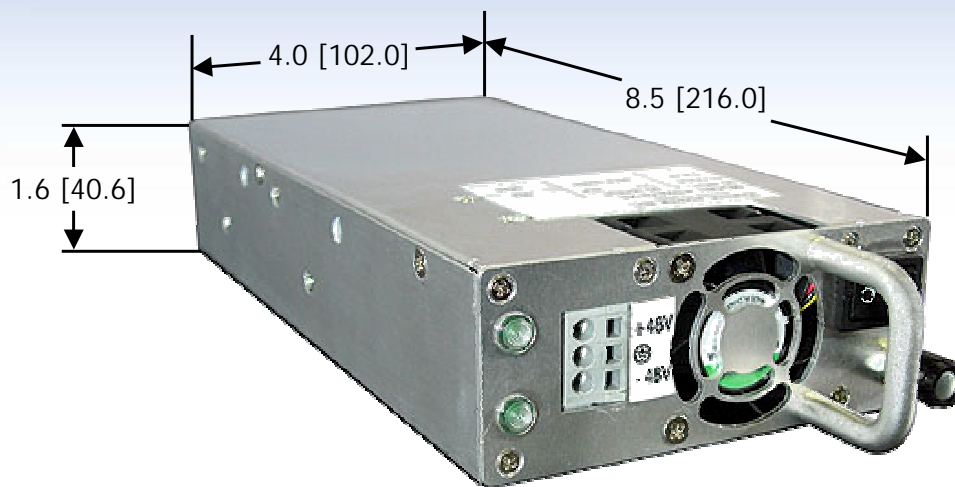
Voltage/Current Rating Chart

Voltage	Current Minimum	Current Maximum	Vin
+12V	0A	25A	-45 to -75 VDC
+12V	0A	18A	-38 to -75 VDC



Rev A

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