

Power For The New Technology

PS2490-Y

Total Power	1356 Watts
Input Voltages	90 to 264 VAC
Outputs	43V @ 31.25A 5V @ 1A

SPECIAL FEATURES

- Efficiency 87% @ low line, 91% @ high line
- Compact 1U design
- N+1 redundant
- Hot swappable
- Current sharing
- I²C Interface with EEPROM
- Fan speed monitoring
- 5V @ 1A (1A at 55°C) standby output

ENVIRONMENTAL

Ambient Operating Temperature: 0 to +55°C

Humidity: Up to 95% non-condensing

Temperature coefficient: ±0.01% / °C

Storage Temperature: -20°C to +65°C

Cooling: Two 15 CFM fans. Airflow from front to back.



ELECTRICAL SPECIFICATIONS

Input

90Vac – 264Vac

Cold start-up @ 264Vac.....< 50 Amps peak

Isolation.....2121 VDC (Input to Chassis)
4242 VDC (Input to Output)

Susceptibility specifications:

Complies with EN55022 & FCC Class A

Output

DC Output.....Maximum continuous output power 1356W with internal cooling. See Voltage/Current Rating Chart.

Load Regulation.....< 3% for 43V output

.....< 2.5% for 5V output

Ripple and Noise.... 1% for 43V output, 100mV for 5V output

Transient Response.....4% Maximum deviation;

Drop Current Sharing for 43V output;

MECHANICAL

11.74"L X 1.64"H X 5.53"W (298.3 mm X 41.7 mm X 140.5 mm)

Fully enclosed aluminum chassis

Input connector: Standard 16A/20A AC connector

Output connector: FCI 51732-045LF

Status signals and indicators

Input GOOD

Output GOOD

PS PRESENT

Visual LED indicators identify power supply status.

The indicators are:

Power Fail (Green)

Output Good (Green)

Fault (Amber)

Monitoring via I²C

- Output Good
- Input Good
- Temperature
- Output Voltage
- Output Current



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Output

Over voltage protection – For 43V output 110 - 130% (Latching)

Over temperature protection.

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

Minimum Load Rqmt...0.5A load 43V output.
0% of full load 5V output.

Hold-Up Time.....20 ms typical

Voltage/Current Rating Chart

Voltage	Current Minimum	Current Maximum
43V	0.5A	31.25A
5V	0A	1A

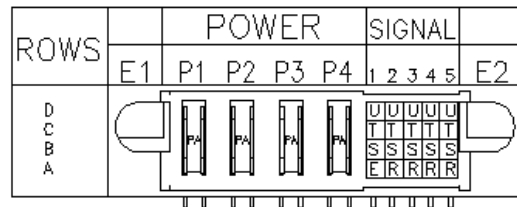


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FCI Output Connector PIN Assignment

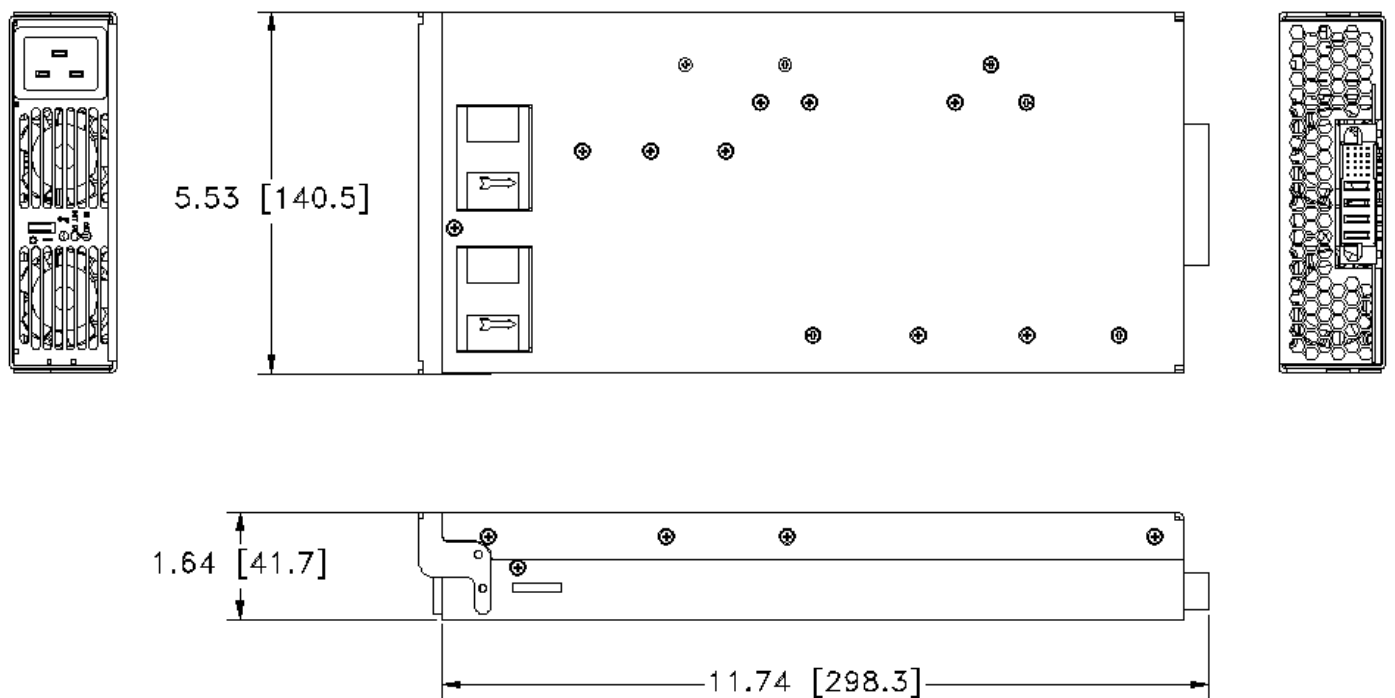
Output Connector Description	PIN
48V_RTN	P1, P3
48V	P2, P4
AC_OK (INPUT OK)	U1
Not Loaded (N.U.)	U2
PS_Present	U3
DC_OK (OUTPUT OK)	U4
OVP Test PIN	U5
Remote_ON/OFF	T1
Not Loaded (N.U.)	T2
Address_A0	T3
Address_A1	T4
Address_A2	T5
N.U.	S1
Not Loaded (N.U.)	S2
+5V_AUX	S3
+5V_AUX_RTN	S4
+5V_AUX_RTN	S5
Enable	E1
Not Loaded (N.U.)	R2
SDA	R3
SCL	R4
N.U.	R5



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Mechanical Outline



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