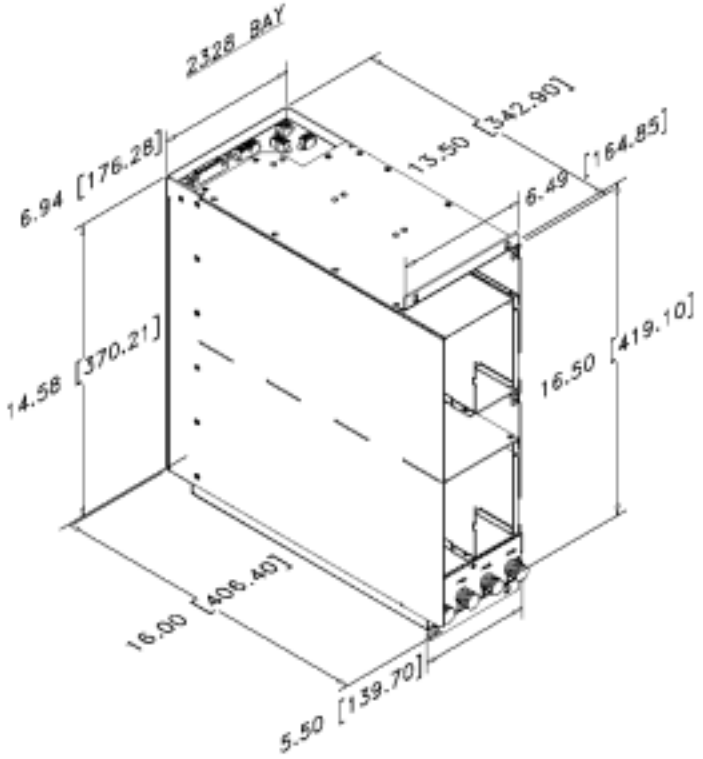
PS2328 Integrated Power System

CONTROL / EXPANSION MODULE

SYSTEM RACK

Power System consists of:

- One rack (Power Supply Housing).
- Two identical 48V @ 2000W (1+1 redundant) or Two identical 1500W (1+1 redundant) or Two identical 1000W(1+1 redundant).
- Two identical P.D.U. (Power Distribution Unit).
  - Hot-pluggable.
  - Each PDU module supplied from 30A IEC Line Cord.
  - Self cooling required.
  - A remote ON / OFF will be able to enable or disable the output power of the entire system.
  - System will have one green LED; 48V OK.
  - Communication between power system and end use system with I²C bus.



2000 Watt Module for SYSTEM RACK

PS2328

Total Power	2000 Watts
Input Voltages	90-264 VAC
Outputs	Two

SPECIAL FEATURES

- 90-264 VAC input with under voltage lockout
- UL, CSA, TUV, BABT Recognized
- NEBS, CE compliant
- TTL / I²C remote on/off control
- I²C Interface

ENVIRONMENTAL

Humidity: Up to 95% non-condensing

Storage Temperature: -20° to +85°C

Temperature coefficient: ±0.01% / °C

Ambient Operating Temperature: 0 to +50°C continuous duty, full rating.

Cooling: Two 92 CFM fans in Push-Pull configuration.

ELECTRICAL SPECIFICATIONS

Input

Input……90 -264 VAC; 47-63Hz;
Power Factor >0.99

Inrush Current (240 Vac)……39 Amps peak

Isolation……..4242VDC (Input to Output)

Susceptibility specifications:
EN 61000-3-2 AC Input line harmonic limits
Complies with EN55022 & FCC Class A with minimum 6 dB margin

Efficiency……> 82% typical at full load

Output

DC Output…….Maximum continuous output power 2000 Watts with internal cooling. See Voltage/Current Rating Chart.

Load Regulation……..10% (total)

Ripple and Noise < 200mV typical

Transient Response…2% Maximum deviation;
Current Sharing; Droop circuitry.

MECHANICAL

13.4” L X 7.0” H X 3.9” W (339.8 mm X 177.8 mm X 98.3 mm)

Status signals and indicators

PS Present
DC Power Good
AC Fail
Fan Monitor
I²C Control and monitoring buss
ID0 Power Supply Type
ID1 Power Supply Type
Visual LED indicators identify power supply failure for replacement. The indicators are:
AC Present
DC Good
Fan OK / Fail

2000 Watt Module for

SYSTEM RACK

Output

Over and under voltage protection – (Latching)
Over current protection (Latching)

Over temperature protection.

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

Minimum Load Rqmt……0% of full load main output.

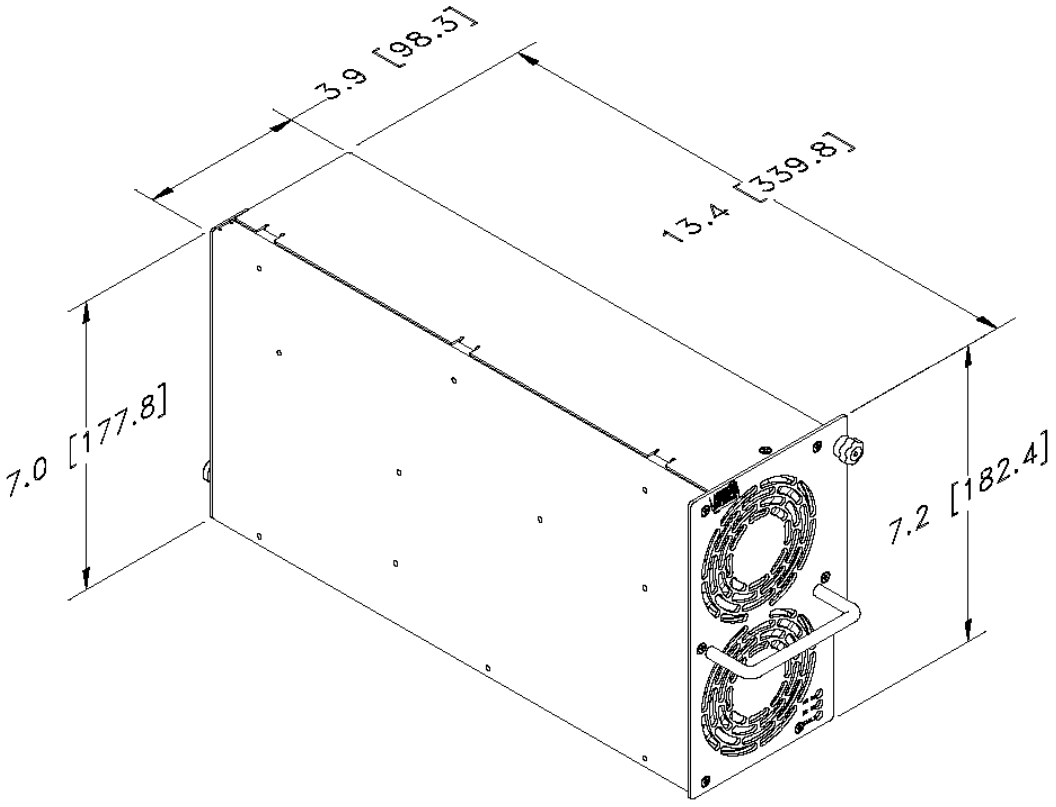
No Load Operation……..No damage to supply when operating at no load.

Hold-Up Time……22 mSec typical

OVP……59 V typical

Voltage/Current Rating Chart

Voltage	48.2V	54V
Current	42A	0.5A
Voltage	5V	5V
Current	0.5A	0A



MARTEK POWER

PS2330

1500 Watt Module for SYSTEM RACK

Total Power	1500 Watts
Input Voltages	90-264 VAC
Outputs	Two

SPECIAL FEATURES

- 90-264 VAC input with under voltage lockout
- UL, CSA, TUV, BABT Recognized
- NEBS, CE compliant
- TTL / I²C remote on/off control
- I²C Interface

ENVIRONMENTAL

Humidity: Up to 95% non-condensing

Storage Temperature: -20° to +85°C

Temperature coefficient: ±0.01% / °C

Ambient Operating Temperature: 0 to +50°C continuous duty, full rating.

Cooling: Two 92 CFM fans in Push-Pull configuration.

ELECTRICAL SPECIFICATIONS

Input

Input……90 -264 VAC; 47-63Hz;
Power Factor >0.99

Inrush Current (240 Vac)……39 Amps peak

Isolation……..4242VDC (Input to Output)

Susceptibility specifications:
EN 61000-3-2 AC Input line harmonic limits
Complies with EN55022 & FCC Class A with minimum 6 dB margin

Efficiency……> 83% typical at full load

Output

DC Output……Maximum continuous output power 1500 Watts with internal cooling. See Voltage/Current Rating Chart.

Load Regulation……..10% (total)

Ripple and Noise < 200mV typical

Transient Response…2% Maximum deviation;
Current Sharing; Droop circuitry.

MECHANICAL

13.4” L X 7.0” H X 3.9” W (339.8 mm X 177.8 mm X 98.3 mm)

Status signals and indicators

PS Present
DC Power Good
AC Fail
Fan Monitor
I²C Control and monitoring buss
ID0 PS Type
ID1 PS Type

Visual LED indicators identify power supply failure for replacement. The indicators are:
AC Present
DC Good
Fan OK / Fail

1500 Watt Module for

SYSTEM RACK

Output

Over and under voltage protection – (Latching)
Over current protection (Latching)

Over temperature protection.

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

Minimum Load Rqmt……0% of full load main output.

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

Hold-Up Time……25 mSec typical

OVP……59 V typical

Voltage/Current Rating Chart

Voltage	48.2V	54V
Current	31A	0.5A
Voltage	5V	5V
Current	0.5A	0A