



# PowerFactors®

## Single Phase Hot Plug IFE, 48V @ 42A

<b>PM3329BP-5</b>	<b>2000W</b>	<b>0°C to +50°C</b>	<b>5" x 5" x 11.5"</b>
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### FEATURES

- Power Factor (> 0.99) Corrected
- 0°C to +50°C at Full Load
- Output Fully Floating
- Over Current Protection
- Over Voltage Protection
- Remote Sense
- Over Temperature Protection
- Self-contained Forced Air Cooling

### SPECIFICATIONS

#### INPUTS:

**RANGE:** 180 to 264 VAC, Single Phase.

**FREQUENCY:** 47 to 63 Hz.

**INRUSH CURRENT:** 25A averaged over 1/2 cycle.

**POWER FACTOR:** > 0.99 @ Full Load.

**HARMONIC CURRENT:** < 5%.

#### OUTPUTS:

**VOLTAGE:** 48VDC

**CURRENT:** 42A

**OUTPUT POWER:** 2000 watts

**ADJUSTMENT RANGE:** +5 to -10% of nominal output voltage.

**POLARITY:** Output is isolated. It may be referenced plus/minus as required.

**REMOTE SENSING:** Compensates for up to 0.5V total loop drop in the output line.

**STATIC REGULATION:**

Line: ±0.25% over full line range.

Load: ±0.25% zero load to full load

**VOLTAGE STABILITY:** ±0.1% for 24 hour period after 30 minute warm up.

**TEMP COEFFICIENT:** ±0.02%/°C from 0°C to +50°C.

**P-P RIPPLE AND NOISE:**

1% (20Hz to 50MHz Bandwidth).

**MINIMUM LOAD:** Not Required.

**TURN ON DELAY:** 1 sec. max from application of AC line.

**OVER VOLTAGE PROTECTION:** 125%

±5% of nominal. OVP shutdown secs and then reapplied. OVP sensing is done at the output terminals.

#### OVER CURRENT PROTECTION:

Current Limit Point: 110% to 120% of full load.

**SHORT CIRCUIT CURRENT:** Fold back type to 40%-80% of full rated current. Unit will recover when overload is removed.

#### ENVIRONMENTAL:

##### OVER TEMPERATURE PROTECTION:

In the event of an over temperature condition, the unit automatically shuts down and latches it off. After cool down, power must be recycled to restart unit.

**AUDIBLE NOISE:** 63 dBA max at 1 meter.

**TEMPERATURE:** Operating: 0°C to +50°C at full load. Storage: -55°C to +85°C.

**HUMIDITY:** 20% to 95% non-condensing.

**ALTITUDE:** Operating: 5,000 feet. De-rates to 70% at 15,000 feet. Non-Operating: To 30,000 feet.

**VIBRATION:** Operating: From 5 to 27 Hz, 0.02 in double amplitude; from 27 Hz to 500 Hz, 0.75G, 3 Axes, 3 min per octave sweep, dwell 15 min at resonance. Non-operating: From 5 to 17 Hz, 0.10 in double amplitude, from 17 to 500Hz, 1.5G peak; 3 axes, 5 min per octave sweep; dwell 15 min at resonance.

**SHOCK:** Operating: 5G, half sine, 11 msec, 3 axes. Non-operating: 15G, half sine, 11 msec, 3 axes.

**COOLING:** Forced air, internal fan. Airflow exits at connector end. See Option (-R).

**EMI:** Designed to meet Conducted & Radiated: EN55022 Level A.

**SAFETY:** Approved to UL1950, CSA CSA22.2 No. 950, and TUV to EN60950.

#### OPTIONS:

**(-2F) LOGIC INHIBIT:** Two volts or more or an open circuit will inhibit the supply, less than 0.5 volts will enable the supply. Logic inhibit return should be connected to negative output.

#### (-4D) OVER TEMPERATURE

**PROTECTION:** Non-latchable. The unit shuts down in the event of over temperature and comes up automatically after it has cooled down.

**(-6B) CURRENT SHARING:** Allows two or more similar power supply main outputs to load share using a single wire.

#### (-127) SPECIAL VOLTAGE ADJUST:

Provides for an adjustment of the output voltage from 12 (±0.5) to 48 VDC via the Margin Circuit with input of 0 to 5 VDC.

#### (-128) POWER SUPPLY FAIL:

Provides output logic high signal when DC output is present. When the DC output is not present the output of this option will drop to logic ground.

#### (-HB) HUMISEAL

**(-R) REVERSE AIRFLOW:** Air enters the connector end and exits the fan end.

**Note 1:** The option signals (-2), and (-128) are floating and referenced to Logic Return. Logic Return pin must be tied to the system common.

#### MECHANICAL:

**DIMENSIONS:** Case: 5" x 5" x 11.5". Excluding the I/O Connector.

**WEIGHT:** 10 lbs.

**MOUNTING:** Designed to lock into matching rack.

**I/O CONNECTORS:** Elcon Lower Drawer Connector provides the hot plug operation.

Model PM3329BP-5  
Type 48D42-2F-4D-6B-20C-127-128-HB-R

