Pioneer Magnetics®

PowerFactors®

1kW to 1.2kW

Single Phase PFC Universal Input — Up to 5 Multiple Outputs

MODEL	PM3384B-6	PM3386B-6	PM3387B-6
MAX POWER	750W	1000W	1200W
# of Channels	5	5	5
MAIN CHANNEL	CH1	CH1	CH1
Power Max	500W	750W	875W
Voltage VDC	*	*	*
Current Max	100A	150A	175A
SECONDARY(S)	CH2 & CH3	CH2 & CH3	CH2 & CH3
Power Max	250W	250W	250W
Voltage VDC	2 to 28V	2 to 28V	2 to 28V
Current Max	15A	15A	15A
SECONDARY(S)	CH4 & CH5	CH4 & CH5	CH4 & CH5
Power Max	125W	125W	125W
Voltage VDC	2 to 28V	2 to 28V	2 to 28V
Current Max	7.5A	7.5A	7.5A

DIMENSIONS: 5" x 5" x 11.25" (127mm x 127mm x 286mm). Exclusive of I/O Connectors.

WEIGHT: 10 lbs.

MOUNTING: Mounting holes for 8-32 screws included on the bottom and on one side.

I/O CONNECTORS:
DC Output: CH1: DC Bus Bars. CH2 to CH5: DC Terminal Block. *AC Input*: Barrier strip with 6-32 screws. DB25 connector for options.

Models: PM3384B, PM3386B and PM3387B

PM3384BP-6	PM3386BP-6	PM3387BP-6
750W	1000W	1200W
5	5	5
CH1	CH1	CH1
500W	750W	875W
*	*	*
100A	150A	175A
CH2 & CH3	CH2 & CH3	CH2 & CH3
250W	250W	250W
2 to 28V	2 to 28V	2 to 28V
15A	15A	15A
CH4 & CH5	CH4 & CH5	CH4 & CH5
125W	125W	125W
2 to 28V	2 to 28V	2 to 28V
7.5A	7.5A	7.5A

DIMENSIONS: 5" x 5" x 14" (127mm x 127mm x 356mm), Exclusive of I/O Connectors.

WEIGHT: 12 lbs.

MOUNTING: Designed to lock into matching rack.

I/O CONNECTORS: Elcon Top Drawer Connector provides hot plug operation.

Models: PM3384BP, PM3386BP and PM3387BP

FEATURES

- **Power Factor Corrected (> 0.99)**
- **0ºC to +50ºC at Full Load**
- **All Outputs Fully Floating**
- **Overcurrent Protection on all Outputs**
- **Overvoltage Protection on all Outputs**
- **Remote Sense on all Outputs**
- **Overtemperature Protection**
- **Self-contained Forced Air Cooling**

SPECIFICATIONS

INPUT:

RANGE: 90 to 264 VAC, Single Phase. Derated to 1050W @ 90VAC.
FREQUENCY: 47 to 63 Hz.
POWER FACTOR: > 0.99 @ Full Load.
HARMONIC CURRENT: < 5%.

OUTPUT:

ADJUSTMENT RANGE: ±10% of nominal output voltage on all channels.
POLARITY: Outputs are isolated. They 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 COEFF: ±0.02%/°C from 0°C to +50°C.
P-P RIPPLE AND NOISE: 1% on CH1 (20 Hz to 50 MHz). 1% or 120mV, whichever is greater, on CH2 to CH5.
OVERSHOOT: No turn-on or turn-off overshoot.
MINIMUM LOAD: 50 watts required on CH1 to support secondary channels.
TURN ON DELAY: 1 second max from application of AC line.
DYNAMIC REGULATION: Output Transient Response: 4% deviation (200mV @ < 500µsec for a 25% load step, 1A/µsec slew rate).
OVERVOLTAGE PROTECTION: 125% ±5% of nominal. OVP shutdown is latched until the input line is removed for 5 seconds and then reapplied. OVP sensing is done at the output terminals.
OVERCURRENT PROTECTION: Current Limit Point: 105% to 115% of full load.

ENVIRONMENTAL:

OVERTEMPERATURE PROTECTION: Automatically shuts down and latches the unit in the event of an overtemperature condition. After cool down, power must be recycled to restart unit.
AUDIBLE NOISE: 63dBA max at 1 meter.
DMTBF: Over 500,000 hrs.
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. Derates to 85% at 10,000 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 500 Hz, 1.5G peak; 3 axes, 5 min per octave sweep; dwell 15 min at resonance.
SHOCK: *Operating*: 5G, half sine, 11msec, 3 axes. *Non-Operating*: 15G, half sine, 11msec, 3 axes.
COOLING: Forced air, internal fan. Airflow exits at connector end.
EMI: Designed to meet Conducted and Radiated: EN55022 Level A.
SAFETY: Designed to meet UL1950, CSA22.2 No. 950, and TUV to EN60950.

TYPICAL OPTIONS:

(Complete Option List Available)

(-1C) AC POWER FAIL: Upon loss of AC line, signal goes from low to high before loss of output regulation.
(-2T) LOGIC INHIBIT: Less than 0.5 volts will inhibit the supply. Two volts or more or an open circuit will enable the supply. Logic inhibit return should be connected to negative output.
(-6B) CURRENT SHARING: Allows two or more similar power supply main outputs to load share using a single wire.
(-8UV) UNDERVOLTAGE DETECT: Signal pulls low when output drops more than 15% ±5% of the nominal. There is no upper trip point. Sensing occurs at the output terminals instead of the remote sense leads. High good (LED *on*) and Low bad (LED *off*).
(-20C) ISOLATION DIODE: Built-in Oring diodes in the positive output line to prevent a failed power supply from affecting the bus.
NOTE: The option signals (-1C), (-2T) and (-8UV) are floating and referenced to Logic Return. Logic Return should be connected by the customer to the system common.

SPECIAL OPTION

Intelligent Power Supply

- Built-in microchip controls all power supply & battery parameters, plus stores data on history, operating conditions & address.
- Allows user to program system functions & alarms.
- Permits either local monitoring (via RS485 bus) or remote monitoring (via modem).

Cat Multiple, 1kW to 1.2kW, Non-Plug / Hot Plug, Single Phase, 11/8/00