

Single Phase PFC, 4 Outputs, 819W

PM3384B-6-4-2-N

819W

0°C to +50°C

5" x 5" x 11.25"

FEATURES

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

SPECIFICATIONS

INPUTS:

RANGE: 90 to 264VAC, Single Phase.

110/220VAC Nominal

FREQUENCY: 47 to 63 Hz.

POWER FACTOR: 0.99 @ Full Load

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

HARMONIC CURRENT: < 5%.

INTERNAL FUSE: 25A Built-in.

OUTPUTS:

POWER: 819W

VOLTAGES & CURRENTS: 12V @ 50A, 3.3V @ 30A, 5V @ 20A & 5V @ 4A

ADJUSTMENT RANGE: Set at $\pm 10\%$ of nominal output voltage for all channels.

POLARITY: Outputs are isolated. They may be referenced plus/minus as required.

REMOTE SENSE: Compensate up to 0.5V total loop drop in the output line.

STATIC REGULATION:

Line: $\pm 0.25\%$ over full line range.

Load: $\pm 0.25\%$ zero load to full load.

VOLTAGE STABILITY: $\pm 0.1\%$ for 24hour period after 30 minute warm up.

TEMP COEFFICIENT: $\pm 0.02\%/^{\circ}\text{C}$. From 0°C to +50°C.

P-P RIPPLE AND NOISE: 50mV on CH1. (Bandwidth: 20Hz to 50MHz). 1% or 120mV ripple on all the other channels

MINIMUM LOAD: 50 watts required on CH1 to support the secondary channels.

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

DYNAMIC REGULATION: Output Transient Response: 4% deviation (200mV @ < 500µsec for a 25% load step, 1A/µsec slew rate.

OVER VOLTAGE PROTECTION: 125% $\pm 5\%$ of nominal. OVP shutdown is latched until the input line is removed for 30 seconds and then reapplied. OVP sensing is done at the output terminals.

OVERCURRENT 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.

REVERSE VOLTAGE PROTECTION: Protected to the rated load with the fan running.

ENVIRONMENTAL:

OVER TEMPERATURE PROTECTION: In the event of an over temperature condition, the unit will shut down automatically. After cool down, power must be recycled to restart unit.

AUDIBLE NOISE: 63dBA 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: 8,000 feet.

De-rates to 70% 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 500Hz, 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.

SAFETY: Designed to meet TUV to EN60950-1.

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

OPTIONS:

(-1CL) POWER FAIL: Upon loss of AC line, signal goes from low to high before loss of output regulation. LED on is good and off indicates failure.

(-8TL) POWER GOOD: The power good monitors the channel output voltage via the remote sense leads. The signal sinks to logic return when output is out of a $\pm 4\%$ tolerance band. LED on is good and off indicates failure.

Note 1: The Option Signals (-1CL) and (-8TL) are floating and referenced to Logic Return. Logic Return should be connected to the system common.

MECHANICAL:

DIMENSIONS: Case: 5" x 5" x 11.25". Excluding the I/O Connectors.

WEIGHT: 10 lbs.

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

I/O CONNECTORS:

Outputs: CH1 is on DC Bus Bars. CH2, CH3, CH4 and CH5 are on the Terminal Block with 8-32 screws. DB25 is the option connector.

Model PM3384B-6-4-2-N
Type CH1 12D50-1CL-8TL
CH2 3.3D30
CH3 5D20
CH4 5D4

**Replacement for Astec
Model AA23260**



PM3384B-6-4-2-N, 819W, 12/11/15

Pioneer Magnetics reserves the right to change the specifications at any time without prior notice.

It is Pioneer Magnetics' policy to improve products as new techniques and components become available.

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