

Non-Plug Three Phase PFC High Input Isolated Front End (IFE)

Pioneer
owns
U.S. Patent
4, 677, 366
for
Power Factor
Correction.

| MODEL | PM33211B-5P | PM33213B-5P | PM33215B-5P |
|---------|---------------|-------------|-------------|
| POWER | 3000W | 4000W | 5000W |
| INPUT | 180 to 264VAC | | |
| OUTPUTS | CURRENT | CURRENT | CURRENT |
| 48V | 63A | 83A | 104A |
| 32V | 94A | 125A | 156A |
| 28V | 107A | 143A | 178A |
| 26V | 115A | 154A | 190A |
| 24V | 125A | 167A | 204A |
| 12V | 250A | 320A | 400A |

Power
Density
of
Up To
13 Watts
per
Cubic Inch.



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: DC Bus Bars.
AC Input: Three wires and Ground
Terminal Block with 8-32 screws.
DB25 connector for options.



DIMENSIONS: 5" x 5" x 15.5"
(127mm x 127mm x 394mm).
Exclusive of I/O Connectors.

WEIGHT: 14.6 lbs.

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

I/O CONNECTORS:
DC Output: DC Bus Bars.
AC Input: Three wires and Ground
Terminal Block with 8-32 screws.
DB25 connector for options.

Model: PM33211B-5P

Models: PM33213B-5P and PM33215B-5P

FEATURES

- Power Factor Corrected (> 0.95)
- 0°C to +50°C at Full Load
- Output Fully Floating
- Overcurrent Protection
- Overvoltage Protection
- Remote Sense
- Overtemperature Protection
- Self-contained Forced Air Cooling

SPECIFICATIONS

INPUT

RANGE: 180 to 264 VAC, Three Phase.
Three Phase is a three wires and Ground
configuration.

FREQUENCY: 47 to 63 Hz.

POWER FACTOR: > 0.95 @ Full Load.

OUTPUT

ADJUSTMENT RANGE: +5%/-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% (20 Hz to 50 MHz Bandwidth).

MINIMUM LOAD: Not Required.

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

OVERVOLTAGE PROTECTION: 125% ±5%
of nominal. OVP shutdown is latched until the
input line is removed for 5 secs 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.
70dBA for high speed fans.

DMTBF: Over 500,000 hours.

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.

(-33) CURRENT MONITOR: The current monitor signal
is referenced to the negative output. It is accurate to
within +/- 10%, from 10% to 100% load. The analog
signal 0V to 5V is proportional to the load when
increased from no load to maximum load.

NOTE: The option signals (-1C) and (-2T) 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).



SPECIFIC APPLICATIONS

- Telecom and Datacom
- Computer / Network Systems
- Broadcast

