

Single Phase PFC 240/480VAC Strappable Isolated Front End (IFE)

MODEL	PM33213F-5	PM33215F-5
POWER	4000W	5000W
INPUT	240 or	480VAC
OUTPUTS	DC	DC
48V	83A	104A
32V	125A	156A
28V	143A	178A
26V	154A	192A
24V	167A	208A



DIMENSIONS: 5" x 8" x 14"
(127mm x 203mm x 356mm).
Exclusive of I/O Connectors.

WEIGHT: 15 lbs.

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

I/O CONNECTORS:

DC Output: 2 sets of DC Bus Bars.

AC Input: 2 sets of Terminal Blocks with 8-32 screws. DB25 connector for options.

THE IDEAL CHOICE FOR:

High-power RF Amplifiers and High-power DTV Transmitters suitable for both U.S. and European operation.

FEATURES

- Power Factor Corrected (> 0.99)
- 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: Selectable, 187 to 264 VAC / 360 to 528 VAC, Single Phase.

FREQUENCY: 47 to 63 Hz.

POWER FACTOR: > 0.99 @ Full Load.

HARMONIC CURRENT: < 5%.

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 second max from application of AC line.

OVERCURRENT PROTECTION: Current Limit Point: 105% to 115% of full load.

OVERVOLTAGE PROTECTION: 120% ±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.

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: 70dBA 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. 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.

(-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).

(-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).

Cat IFE, 4kW to 5kW, Single Phase, 480VAC,
11/8/00