



ETM-SX SERIES

Model	Output		Efficiency
ETM24SX	24V	100A	85%
ETM26SX	26V	92A	85%
ETM28SX	28V	86A	85%
ETM48SX	48V	50A	85%

DESCRIPTION

The High Power PFC isolated Front Ends provide 24, 26, 28 and 48VDC single output. Complete front-end solutions for driving high density DC to DC modules in distributed Power Systems with (N+1) redundancy. Meeting international safety and EMI standards, this ET series provides high reliable and rugged compact power with DMTBF over 500,000 hours.

FEATURES

- Power Factor (>0.99)
- 0 C to +50 C at full load
- Standard 5" X 5" X 11.25" envelope
- Output Fully Floating
- Overcurrent Protection
- Overvoltage Protection
- Remote Sense
- Overtemperature Protection
- Self-contained Forced Air Cooling
- Meets UL, CSA and VDE Safety
- Meets EMI EN88155 Level A ISO9001 (1997)

OPTIONS

- Hot Pluggable
- Wide Temp Operation
- Power Fall Signal
- Logic Inhibit
- Single Wire Current Sharing
- Power Good Single
- Diode Isolation
- Output Current monitor

ELECTRICAL SPECIFICATIONS

INPUTS

RANGE: Full input Range 180 to 264 VAC.

FREQUENCY: 43 to 63Hz.

INRUSH CURRENT: 25A averaged over ½ cycle

HARMONIC CURRENT: <5%

EFFICIENCY: 80% to 85% (Measured at full load and 208 VAC Input)

OUTPUTS

VOLTAGE: 24, 26, 28, and 48 VDC

CURRENT: See Tables

ADJUSTMENT RANGE: +/-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: Option: +/-% zero load to full load. Droop IFE: Option: the output sags from +5% when the load is increased from 10% to 100%.

VOLTAGE STABILITY: +/-0.1% FOR 24 hour period after 30 minute warm up.

OUTPUTS

TEMP COEFFICIENT: +/-0.02%/ C FROM 0 c TO +50 c. For Wide Temperature. Option: +/- 0.035%/ C from -30 C to +70 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 is latched until the input line is removed for 5 secs and then reapplied. OVP sensing is don at the output terminals.

OVERCURRENT PROTECTION: Current I=Limit Point: 110% to 120% of full load.

ETM-SX SERIES

ENVIRONMENTAL

OVERTEMPERATURE PROTECTION:

Automatically shuts down and latches the unit in the event of an over temperature condition. After cool down, power must be recycled to restart the unit.

AUDIBLE NOISE: 63 dBA max at 1 meter. 70 dBA for high speed fans. (See Output Tables for units with high speed fan).

TEMPERATURE: Standard: 0 C to +50 C at full load. Storage: -55 C to +85 C.

HUMIDITY: 20% to 95% non-condensing.

ALTITUDE: Operating: 8,000 Ft. Derates to 90% at 10,000 Ft. Non-Operating at 30,000 feet.

VIBRATION: Operating: From 5 to 27Hz, 0.02" double amplitude: from 27 to 500Hz, 0.75G, 3 Axes, 5 min/octave sweep, dwell 1 min at resonance.

Non-Operating: From 5 to 17Hz, 0.01" double amplitude: from 17 to 500Hz, 1.5G peak: 3 axes, 5min/octave sweep, dwell 1 min at resonance.

MTBF: 500,000 hours

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

COOLING: Forced air, internal fan Airflow normally exits at connector.

EMI: Conducted & Radiated EN55022 level A

SAFETY: Meets UL1950 , CSA1950, and TUV t EN60950. Factory is an approved BABT manufacturer.

DIMENSIONS:

Weight: 11 lbs.

