

ETH-HP SERIES

Model	Output		Efficiency
ETH24HP	24V	42A	85%
ETH26HP	26V	39A	85%
ETH28HP	28V	35A	85%
ETH48HP	48V	21A	85%

DESCRIPTION

The High Power PFC isolated Front Ends HOT-PLUG power supply 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. Using Elcon Top Drawer Connector, 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
- Over current Protection
- Over voltage Protection
- Remote Sense
- Over temperature Protection
- Self-contained Forced Air Cooling
- Meets UL, CSA and VDE Safety
- Meets EMI EN88155 Level A ISO9001

OPTIONS

- -6B CURRENT SHARING
- -20c ISOLATION DIODE
- -128I DC POWER GOOD

ELECTRICAL SPECIFICATIONS

INPUTS

RANGE: Full input Range 90 to 264 VAC. Single Phase
 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: +5 to -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.
 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.

ETH-HP 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

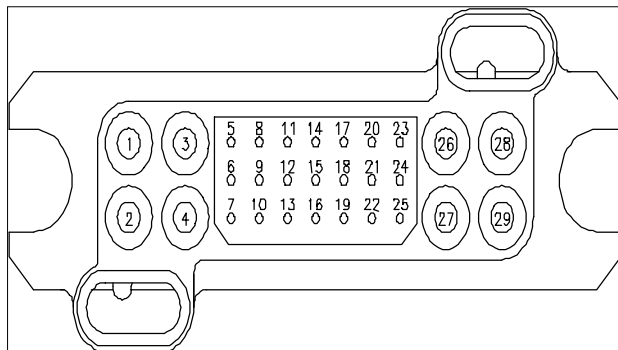
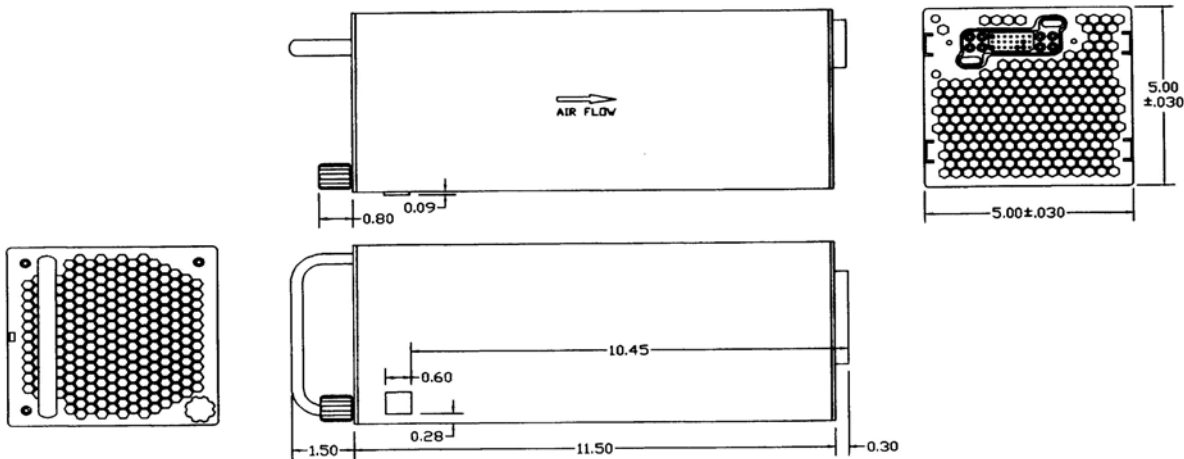
SHOCK: Operating: 5G, half sine, 11msec 3 axes. Non-Operating: 15G half sine, 11 msec, 3 axes.

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

EMI: Conducted & Radiated EN55022 level A

SAFETY: Meets UL1950, CSA1950, and TUV t EN60950.

DIMENSIONS:



Elcon Lower Drawer Connector

Pin 1: AC Input (N)	Pin 21: Power Fail
Pin 2: AC Input (L)	Pin 22: Under voltage Detect
Pin 3: Chassis Gnd	Pin 23: Remote Sense +
Pin 4: Chassis Gnd	Pin 25: Remote Sense -
Pin 5: Unit Present	Pin 26: Output +
Pin 7: Unit Present	Pin 27: Output -
Pin 17: Current Sharing	Pin 28: Output +
Pin 18: Current Monitor	Pin 29: Output -
Pin 19: Logic Return	
Pin 20: Logic Inhibit	