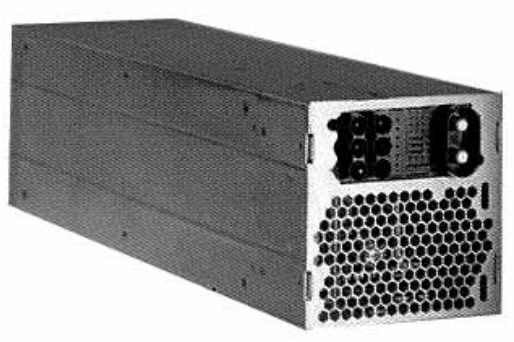
ETA-USA
Your power supply experts

2.0 KW
170-264VAC



ETL-HP SERIES

Model	Output		Efficiency
ETL24HP	24V	84A	85%
ETL26HP	26V	76A	85%
ETL28HP	28V	72A	85%
ETL48HP	48V	43A	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
- 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

OPTIONS

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

ELECTRICAL SPECIFICATIONS

INPUTS
RANGE: Full input Range 170 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 l=Limit Point: 110% to 120% of full load.

ETA-USA Tel: 408-365-7723 Fax: 408-365-7513 **e-mail**: sales@eta-usa.com

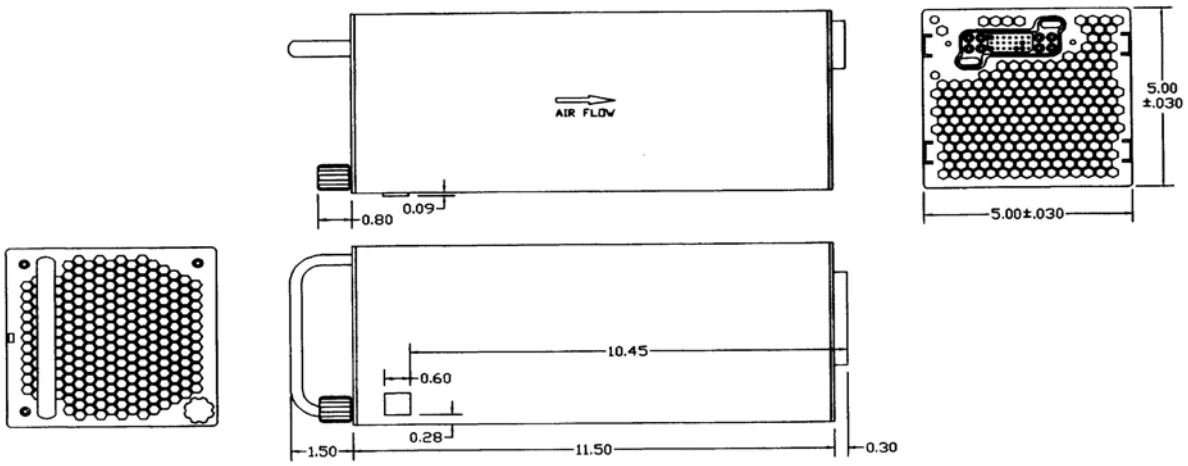
ETL-HP SERIES

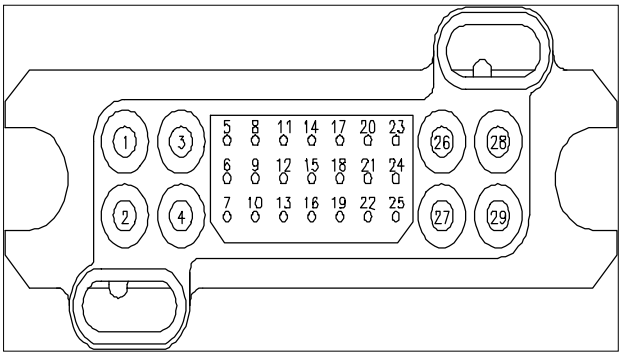
ENVIRONMENTAL

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:	Undervoltage 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		

Pins 6, 8-16 and 24 Not Used.

ETA-USA Tel: 408-365-7723 Fax: 408-365-7513 **e-mail**: sales@eta-usa.com