H HiTRON

UNIVERSAL AC INPUT HARMONIC CORRECTION AC-DC INDUSTRIAL DIN- RAIL SINGLE OUTPUT 150 WATTS ACTIVE CURRENT SHARING SWITCHING MODE POWER SUPPLIES HPD150 SERIES

FEATURES:

- **ACCOMMODATE UNIVERSAL AC SOURCES IN THE WORLD**
- **MEET IEC 61000-3-2 HARMONIC CORRECTION**
- **MEET UNIVERSAL SAFETY STANDARDS AND INDUSTRIAL UL 508**
- **INDUSTRIAL POWER SUPPLIES FOR SNAP-ON MOUNTING ON DIN-RAILS**
- **EMI MEET CISPR PUB. 22 & FCC CLASS B**
- **CE MARKING COMPLIANCE**

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: Typ. 90-264Vac universal input.
Input Connector: Phoenix GMSTBA2.5/3-G-7.62.
Input Frequency: 47-63Hz.
Inrush Current: Typ. 30A peak @ 230Vac.
Input Current: 1.6A @ 115Vac, 0.8A @ 230Vac.
Dielectric Withstand: Meet IEC 60950-1.
EMI/RFI: Meet CISPR EN 55022 & FCC B.
Power Factor Correction: Meet Harmonic Correction per IEC 61000-3-2.PF typ.0.96-0.98.
Remote Inhibit: Availabe.
No Load Operation: No damage.
Hold-up Time: 30mS @ 115Vac & 230Vac.
Earth Leakage: Less than 0.40mA @ 230Vac.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.
Output Current: See Ratings Chart.
Output Wattage: Typ. 150W continuous.
Output Connector: Phoenix MSTBA2.5/2-G-5.08.
Line Regulation: Typ. 0.1%.
Load Regulation: Typ. ± 1.0%.
Noise & Ripple: Typ. 1% peak to peak.
OVP: Built-in.
Remote Sense: Installed.
Adjustability: Available.
Load Sharing: Active current sharing. (Option)
LED Indicator: Output indicating.
Overload Protection (OLP):
Fully protected against output overload and short circuit.
Typically set at 115-130% of the output wattage.
Consult the factory for the special OLP setting.

GENERAL SPECIFICATION

Efficiency: Typ. 83-86%.
Switching Frequency: Fixed frequency 88-92KHz.
Circuit Topology: Fixed freq. forward circuit.
Transient Response: Output voltage returns in less than 3mS following a 25% load change.
Safety Standard: IEC 60950-1/UL 60950-1 Class I.
Power Density: 2.4Watts /Cubic Inch.
Industrial Grade UL 508.

Operating Temperature: -10 to +70°C. Derating from +60 to +70°C by derating 2%/°C.
Storage Temperature: -25 to +85°C.
Temperature Coefficient: Typ. 0.03% /°C.
Cooling: Free air convection cooling for Ta <+60°C. Required 20cfm airflow for Ta. >+ 60°C full load operation.
Construction format: Enclosure metal box with DIN-clips format.

Note: Due to requests in market and advances in technology, specifications subject to change without notification..

In application

OUTPUT VOLTAGE / CURRENT RATINGS CHART

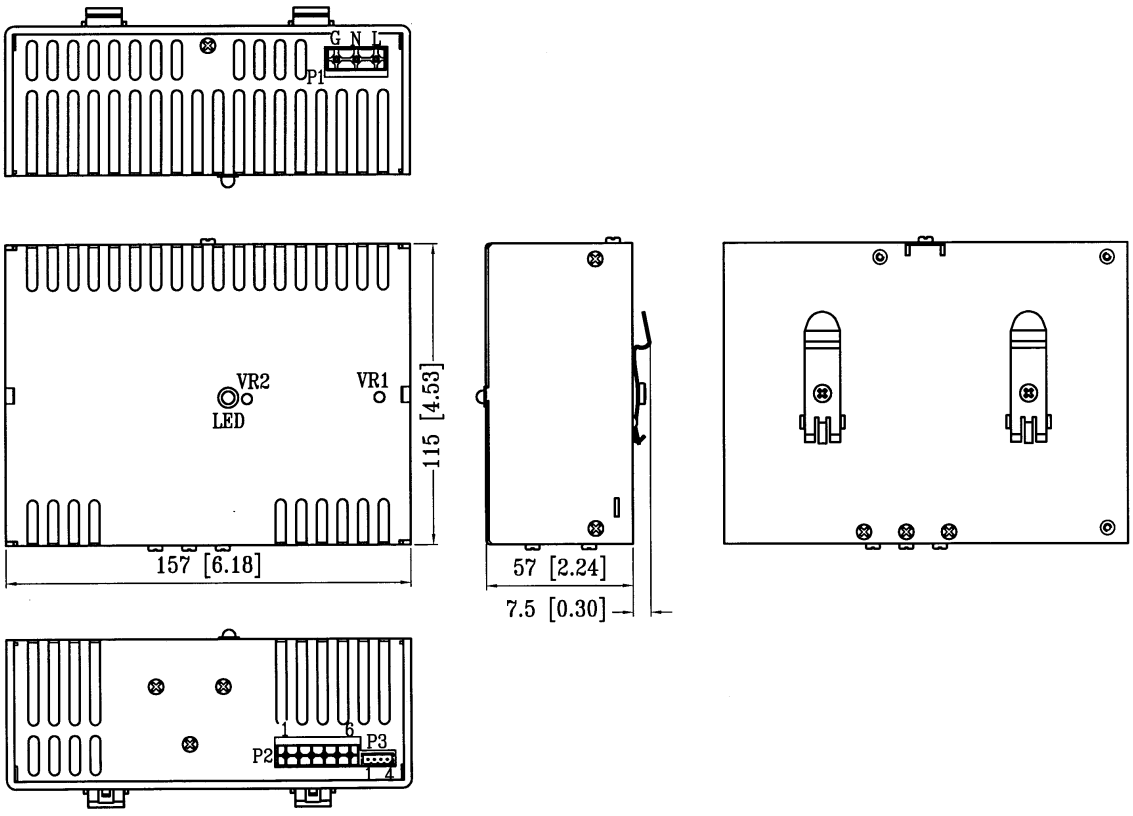
SINGLE OUTPUT

MODEL NO.	MAIN VO1 @ ★(≡)#		
	TYP.	**VOLT.**	PEAK
HPD150-S120125	12.5A	**12.0V**	15.0A
HPD150-S240065	6.5A	**24.0V**	7.5A
HPD150-S480034	3.4A	**48.0V**	4.0A

Symbol: "(≡)" Active circuit current sharing. (Option) "★" OVP built-in.
"#" Remote sensing. "@" Adjustable.
Remark: Peak load less than 60sec. with duty cycle <10%.

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 1.13kg(2.51 lb.)



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

	AC INPUT			SINGLE OUTPUT		ASSORTED SIGNAL			
ASSIGNMENT	**AC-L**	**AC-N**	**AC-G**	**VO1**	**DC-COM**	**-SENSING**	**+SENSING**	**INHIBIT**	**C/S**
CNTR & PIN #	P1-L	P1-N	P1-G	P2-4,5,6	P2-1,2,3	P3-1	P3-2	P3-3	P3-4

Mating connector: P1 :Phoenix GMSTB2.5/3-ST-7.62
P2: Phoenix MSTB2.5/2-ST-5.08