

HiTRON

UNIVERSAL AC INPUT HARMONIC CORRECTION AC-DC 19" COMPATIBLE EUROCARD TRIPLE OUTPUT 300 WATTS SWITCHING MODE POWER SUPPLIES HPU300 SERIES



FEATURES:

- ACCOMMODATE UNIVERSAL AC SOURCES
- MEET IEC 61000-3-2 HARMONIC CORRECTION
- DUAL CONVERTER ARCHITECTURE
- MEET UNIVERSAL SAFETY STANDARDS
- 19" COMPATIBLE EUROCARD FORMAT
- EMI MEET EN 55022 & FCC CLASS B
- CE MARKING COMPLIANCE
- 6U X 12HP X 160MM FOR STANDARD VMEbus

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: Typ. 90-264Vac with PFC.
Input Connector: DIN 41612 at rear.
Input Frequency: 47-63Hz.
Inrush Current: Typ. <30.6A peak @ 230Vac.
Input Current: 3.7A @ 115Vac, 1.85A @ 230Vac.
Dielectric Withstand: Meet IEC 60950-1.
EMI: Meet EN 55022 & FCC B.
Power Factor Correction: Meet Harmonic Correction IEC 61000-3-2. PF typ. 0.97-0.98.
Power Indicator: Green LED.
Power OK Signal: Installed.
Logic Inhibit: Installed.
Hold-up Time: 46mS @ 115Vac & 230Vac.
Earth Leakage: Less than 0.60mA @ 230Vac.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.
Output Current: See Ratings Chart.
Output Connector: DIN 41612 at rear.
Line Regulation: Typ. 0.1%.
Load Regulation: Main VO1: Typ. $\pm 3.0\%$.
Main VO2: Typ. $\pm 3.0\%$.
Aux. VO3: Typ. $\pm 5.0\%$ (Common Choke).
Noise & Ripple: Typ. 1% peak to peak.
OVP: Built-in at two main output VO1 & VO2.
Adjustability: Available at VO1 & VO2 rails.
Overload Protection (OLP): Fully protected against output overload and short circuit. Consult the factory for OLP setting.

GENERAL SPECIFICATION

Efficiency: Typ. 76 - 78%.
Switching Frequency: Fixed frequency 93K Hz.
Circuit Topology: Dual converter architecture.
Fixed Frequency 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: 2.16 Watt / Cubic Inch.
Operating Temperature: 0 to +50°C full load & +50 to +70°C by derating 2%/°C.
Storage Temperature: -25°C to +85°C.
Temperature Coefficient: Typ. 0.03% / °C.
Cooling: Forced air flow is recommended for $T_a > +50^\circ\text{C}$ full load operation.
Construction format: 6Ux12HP(TE)x160mm VMEbus standard Eurocard format.

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



In application

OUTPUT VOLTAGE / CURRENT RATINGS CHART

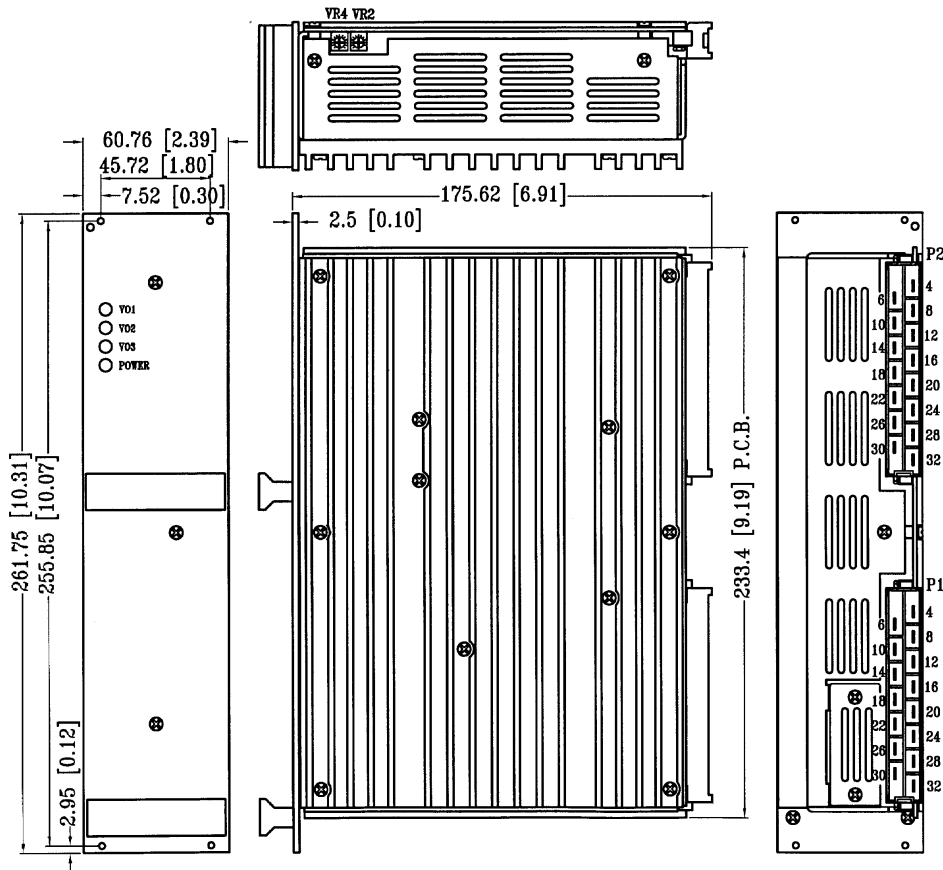
TRIPLE OUTPUT

MODEL NO.	MAIN VO1 ★@#		MAIN VO2 @★■		AUX. VO3 ■	
	Typ.	Volt.	Typ.	Volt.	Typ.	Volt.
HPU300-T050IE (HPU300-30)	40.0A	+5.0V	5.0A	+12.0V	5.0A	-5.0V
HPU300-T050II (HPU300-32)	40.0A	+5.0V	5.0A	+12.0V	5.0A	-12.0V
HPU300-T050KK	40.0A	+5.0V	5.0A	+15.0V	5.0A	-15.0V
HPU300-T050DE	40.0A	+5.0V	5.0A	+3.3V	5.0A	-5.0V
HPU300-T033EE	40.0A	+3.3V	5.0A	+5.0V	5.0A	-5.0V
HPU300-T033KK	40.0A	+3.3V	5.0A	+15.0V	5.0A	-15.0V
HPU300-T033II	40.0A	+3.3V	5.0A	+12.0V	5.0A	-12.0V

Symbol: "★"OV P built-in. "@Adjustable. "#" Remote sensing. "■" Couple filter inductor.

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 2,367g (5.22 lb.)



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENTS

ASSIGNMENT	AC INPUT			ASSORTED SIGNAL			TRIPLE OUTPUT					
	L	N	G	Inh.	Pwr.OK	Reset	VO1	+S	-S	+VO2	-VO3	DC COM
CONNECTOR & PIN#	P1-28	P1-30	P1-32	P1-8	P1-4	P1-6	P2-4,6,8,10,12	P2-14	P2-32	P2-28,30	P2-16	P2-18,20,22,24,26

Mating connector: DIN 41612-H15 Female.