

UNIVERSAL AC INPUT HARMONIC CORRECTION AC-DC 19" COMPATIBLE EUROCARD MULTI-OUTPUT 60 WATTS SWITCHING MODE POWER SUPPLIES HPU60 SERIES



FEATURES:

- ACCOMMODATE UNIVERSAL AC SOURCES
- MEET IEC 61000-3-2 HARMONIC CORRECTION
- MEET UNIVERSAL SAFETY STANDARDS
- 19" COMPATIBLE EUROCARD FORMAT
- EMI MEET EN 55022 & FCC CLASS B
- CE MARKING COMPLIANCE
- 3U X 8HP X 160MM FOR VMEbus STANDARD

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: Typ. 90-264Vac with PFC.
Input Connector: DIN 41612 at rear.
Input Frequency: 47-63Hz.
Inrush Current: Typ. $\leq 30.6A$ @ 230Vac.
Input Current: 0.73A @ 115Vac, 0.37A @ 230Vac.
Dielectric Withstand: Meet IEC 60950-1.
EMI/RFI: Meet EN 55022 & FCC B.
Power Indicator: Green LED.
Power Failure Signal: Installed.
Remote On/Off: Installed.
Power Factor Correction: Meet Harmonic Correction IEC 61000-3-2 .PF typ. 0.97-0.98.
Hold-up Time: 41mS @ 115Vac & 230Vac.
Earth Leakage: Less than 0.40mA @ 230Vac.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.
Output Current: See Ratings Chart.
Output Connector: DIN 41612 at rear.
Line Regulation: Typ. 0.5%.
Load Regulation: Main VO1 typ. $\pm 1.0\%$.
 Aux.VO2 typ. $\pm 2.0\%$ (Mag. Amp.)
 typ. $\pm 3.0\%$ (P.R.).
 Aux.VO3 typ. $\pm 3.0\%$ (P.R.).
Noise & Ripple: Typ. 1% peak to peak.
OVP: Built-in at main VO1.
Adjustability: Available at VO1 & VO2.
Overload Protection (OLP): Fully protected against output overload and short circuit.
 Consult the factory for OLP setting.

GENERAL SPECIFICATION

Efficiency: Typ. 73%.
Switching Frequency: Fixed frequency 83K Hz.
Circuit Topology: 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: 1.52 Watts / Cubic Inch.

Operating Temperature: 0 to +50°C.
Storage Temperature: -25 to +85°C.
Temperature Coefficient: Typ. 0.03% /°C.
Cooling: Forced air flow is recommended for full load >+40°C operation.
Construction format: 3U x 8HP(TE) x 160mm.
 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

SINGLE OUTPUT

MODEL NO.	MAIN VO1 ★@#	
	Typ.	Volt.
HPU60-S025180	18.0A	2.5V
HPU60-S033150	15.0A	3.3V
HPU60-S050120	12.0A	5.0V
HPU60-S060100	10.0A	6.0V
HPU60-S120050	5.0A	12.0V
HPU60-S150040	4.0A	15.0V
HPU60-S190030	3.0A	19.0V
HPU60-S240025	2.5A	24.0V
HPU60-S480013	1.3A	48.0V

DUAL OUTPUT

MODEL NO.	MAIN VO1 ★@#		AUX. VO2 ▲◇	
	Typ.	Volt.	Typ.	Volt.
HPU60-D030E	6.0A	3.0V	6.0A	5.0V
HPU60-D030I	6.0A	3.0V	3.0A	12.0V
HPU60-D050I	5.0A	5.0V	3.0A	12.0V
HPU60-D120I	2.5A	12.0V	2.5A	12.0V
HPU60-D050K	5.0A	5.0V	2.5A	15.0V
HPU60-D150K	2.0A	15.0V	2.0A	15.0V
HPU60-D050M	5.0A	5.0V	1.5A	24.0V
HPU60-D240M	1.4A	24.0V	1.4A	24.0V

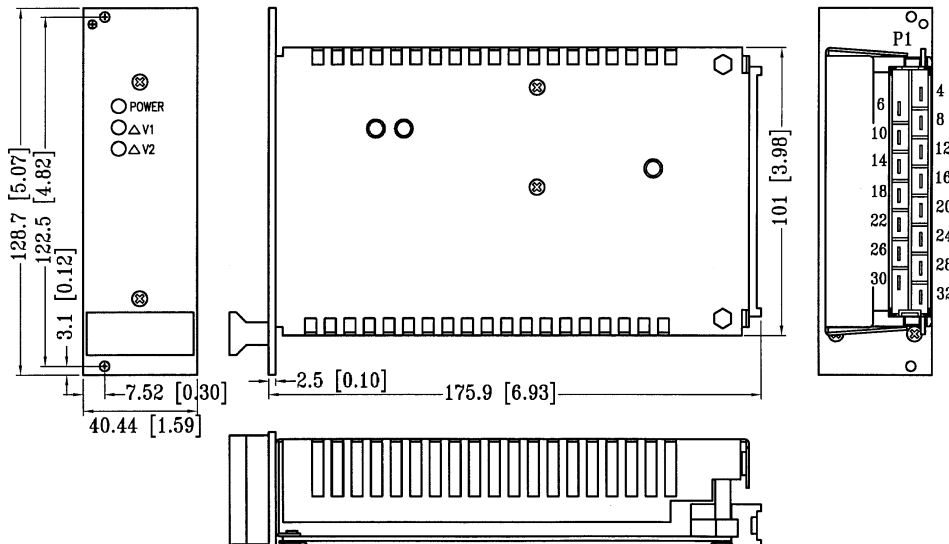
TRIPLE OUTPUT

MODEL NO.	MAIN VO1 ★@◇		AUX. VO2 @▲◇ or●		AUX. VO3 ●◇	
	Typ.	Volt.	Typ.	Volt.	Typ.	Volt.
HPU60-T050IE (HPU60-30)	5.0A	5.0V	2.5A	12.0V	1.0A	5.0V
HPU60-T050KK (HPU60-31)	5.0A	5.0V	2.0A	15.0V	0.5A	15.0V
HPU60-T050II (HPU60-32)	5.0A	5.0V	2.5A	12.0V	0.5A	12.0V
HPU60-T030EI	6.0A	3.0V	5.0A	5.0V	1.0A	12.0V
HPU60-T030KK	6.0A	3.0V	2.0A	15.0V	0.5A	15.0V
HPU60-T030II	6.0A	3.0V	2.5A	12.0V	0.5A	12.0V

Symbol: "★" OVP built-in. "@#" Adjustable. "▲" Magnetic Amplifier "●" Installed with Post Regulator.
 "◇" Floating(or isolated)output. "#" Remote sensing.

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 720.0g (25.40z.)



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

ASSIGNMENT	AC INPUT			SINGLE OUTPUT					DUAL OUTPUT					TRIPLE OUTPUT							Status/Control	
	AC-L	AC-N	AC-G	+VO1	+S	-VO1	-S	NC	+VO1	-VO1	+VO2	-VO2	NC	+VO1	-VO1	+VO2	-VO2	+VO3	-VO3	NC	Log. Inh.	P. Fail
CNTR & Pin#	28	30	32	4,6	8	12,14	10	16,18,24,26	4	6	8	10	12,14,16,18,24,26	4,6	8,10	12	14	16	18	24,26	20	22

Mating connector: DIN 41612-H15 Female