

# HiTRON

## UNIVERSAL AC INPUT HARMONIC CORRECTION AC-DC 19" COMPATIBLE EUROCARD MULTI-OUTPUT 100 WATTS SWITCHING MODE POWER SUPPLIES HPU100 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 10HP X 160MM 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. <30.6A @ 230Vac.  
**Input Current:** 1.0A @ 115Vac, 0.5A @ 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:** 20mS @ 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.  $\pm 1-2.0\%$ .  
 Aux.VO2 typ.  $\pm 2.0\%$  (Mag. Amp.)  
 Aux.VO3 typ.  $\pm 3.0\%$  (PR).  
**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. 73-76%.  
**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:** 2.0 Watt / Cubic Inch.

**Operating Temperature:** 0 to +50°C full load. Derates from +50 to +70°C by derating 2%/°C.  
**Storage Temperature:** -25 to +85°C.  
**Temperature Coefficient:** Typ. 0.04% /°C.  
**Cooling:** Forced air flow is recommended for Ta > +50°C full load operation.  
**Construction format:** 10HP(TE) X3UX160mm 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.
<b>HPU100-S033250</b>	25.0A	<b>3.3V</b>
<b>HPU100-S050200</b> (HPU100-10)	20.0A	<b>5.0V</b>
<b>HPU100-S120080</b>	8.0A	<b>12.0V</b>
<b>HPU100-S150075</b>	7.5A	<b>15.0V</b>
<b>HPU100-S240042</b> (HPU100-13)	4.2A	<b>24.0V</b>
<b>HPU100-S280036</b>	3.6A	<b>28.0V</b>
<b>HPU100-S360028</b>	2.8A	<b>36.0V</b>
<b>HPU100-S480021</b>	2.1A	<b>48.0V</b>

## DUAL OUTPUT

MODEL NO.	MAIN VO1 ★@◇		AUX. VO2 @▲◇	
	Typ.	Volt.	Typ.	Volt.
<b>HPU100-D050I</b> (HPU100-20)	8.0A	<b>5.0V</b>	5.0A	<b>12.0V</b>
<b>HPU100-D120I</b> (HPU100-21)	4.2A	<b>12.0V</b>	4.2A	<b>12.0V</b>
<b>HPU100-D050K</b>	8.0A	<b>5.0V</b>	4.0A	<b>15.0V</b>
<b>HPU100-D150K</b> (HPU100-23)	3.4A	<b>15.0V</b>	3.4A	<b>15.0V</b>
<b>HPU100-D033I</b>	11.0A	<b>3.3V</b>	5.0A	<b>12.0V</b>
<b>HPU100-D033K</b>	11.0A	<b>3.3V</b>	4.0A	<b>15.0V</b>

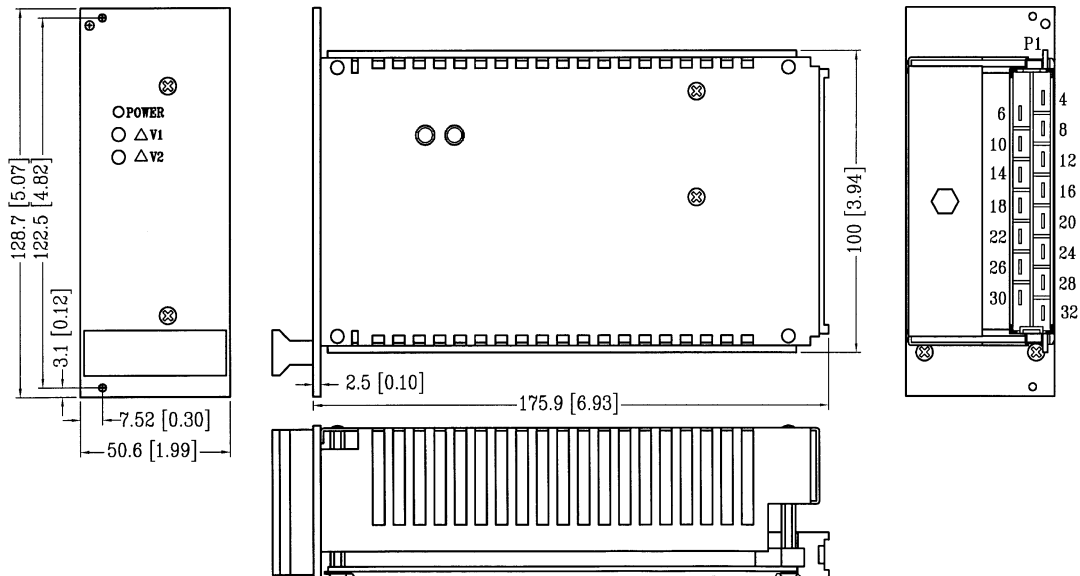
## TRIPLE OUTPUT

MODEL NO.	MAIN VO1 ★@◇		AUX. VO2 @▲◇		AUX. VO3 ●◇	
	Typ.	Volt.	Typ.	Volt.	Typ.	Volt.
<b>HPU100-T050IE</b>	7.0A	<b>5.0V</b>	5.0A	<b>12.0V</b>	1.0A	<b>5.0V</b>
<b>HPU100-T050KK</b> (HPU100-31)	7.0A	<b>5.0V</b>	4.0A	<b>15.0V</b>	0.4A	<b>15.0V</b>
<b>HPU100-T050II</b> (HPU100-32)	7.0A	<b>5.0V</b>	5.0A	<b>12.0V</b>	0.5A	<b>12.0V</b>
<b>HPU100-T033EI</b>	11.0A	<b>3.3V</b>	9.0A	<b>5.0V</b>	1.0A	<b>12.0V</b>
<b>HPU100-T033KK</b>	10.0A	<b>3.3V</b>	4.0A	<b>15.0V</b>	0.6A	<b>15.0V</b>
<b>HPU100-T033II</b>	10.0A	<b>3.3V</b>	5.0A	<b>12.0V</b>	0.8A	<b>12.0V</b>

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

## MECHANICAL DIMENSIONS: MM [INCHES]

**WEIGHT: 920.0g (32.5 Oz.)**



## 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.Ok
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