

# HiTRON

## UNIVERSAL AC INPUT AC-DC 19" COMPATIBLE EUROCARD MULTI-OUTPUT 45 WATTS SWITCHING MODE POWER SUPPLIES HIU45 SERIES



### FEATURES:

- ACCOMMODATE UNIVERSAL AC SOURCES
- 19" COMPATIBLE EUROCARD FORMAT
- MEET UNIVERSAL SAFETY STANDARDS
- EMI MEET CISPR PUB. 22 & FCC CLASS B
- CE MARKING COMPLIANCE
- 3U X 6HP X 160MM FOR VMEbus STANDARD

### SPECIFICATION

#### INPUT SPECIFICATION

**Input Voltage:** Range Typ. 90-264Vac.  
Rating 100 to 240Vac.

**Input Connector:** DIN 41612 at rear.

**Input Frequency:** 47-63Hz

**Inrush Current:** Typ. 25-30A @ 230Vac.

**Input Current:** 0.34A/115Vac & 0.17A/230Vac.

**Dielectric Withstand:** Meet IEC 60950-1.

**EMI:** Meet CISPR PUB. 22 & FCC Class B.

**Power Fail Signal:** Installed.

**Remote Inhibit:** Available at single output only.

**Hold-up Time:** Typ. 10mS @115Vac/40-50mS @230Vac.

**Earth leakage:** Typ. 0.3-0.5A @230Vac.

#### OUTPUT SPECIFICATION

**Output Voltage:** See Ratings Chart.

**Output Current:** See Ratings Chart.

**Output Wattage:** Typ. 45-50 Watts.

**Output Connector:** DIN 41612 at rear.

**Line Regulation:** Typ. 0.1%.

**Load Regulation:** Main VO1 typ.  $\pm 1.0\%$ .  
Aux. VO2 typ.  $\pm 2-3.0\%$  (P.R.).  
Aux. VO3 typ.  $\pm 2-3.0\%$  (P.R.).

**Noise & Ripple:** Typ. 1% peak to peak.

**OVP:** Built-in at main VO1 (latch).

**Adjustability:** Available at main output VO1.

**Remote Sense:** Installed at main VO1.

**Overload Protection (OLP):**  
Fully protected against output overload and short circuit.  
Consult the factory for OLP setting.

#### GENERAL SPECIFICATION

**Efficiency:** Typ. 60-70%.

**Switching Frequency:** 45K Hz.

**Circuit Topology:** Fixed frequency flyback 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.

**Operating Temperature:** 0 to +50°C.

**Storage Temperature:** -20 to +85°C.

**Temperature Coefficient:** Typ. 0.04% /°C.

**Cooling:** Free air convection cooling.

**Construction:** 6HP(TE) x 3U 19" compatible Eurocard VMEbus standard.

**Power Density:** 1.4Watts / Cubic Inch.

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.
HIU45-S025160	16.0A	2.5V
HIU45-S030140	14.0A	3.0V
HIU45-S050090	9.0A	5.0V
HIU45-S120040	4.0A	12.0V
HIU45-S150032	3.2A	15.0V
HIU45-S240020	2.0A	24.0V
HIU45-S480010	1.0A	48.0V

## DUAL OUTPUT

MODEL NO	MAIN VO1 ★@#		AUX. VO2 ◇•	
	Typ.	Volt.	Typ.	Volt.
HIU45-D030E	8.0A	3.0V	2.0A	5.0V
HIU45-D030I	7.0A	3.0V	2.0A	12.0V
HIU45-D050D	6.0A	5.0V	2.0A	3.0V
HIU45-D050I	4.0A	5.0V	2.0A	12.0V
HIU45-D050K	4.0A	5.0V	2.0A	15.0V
HIU45-D050M	4.0A	5.0V	1.0A	24.0V

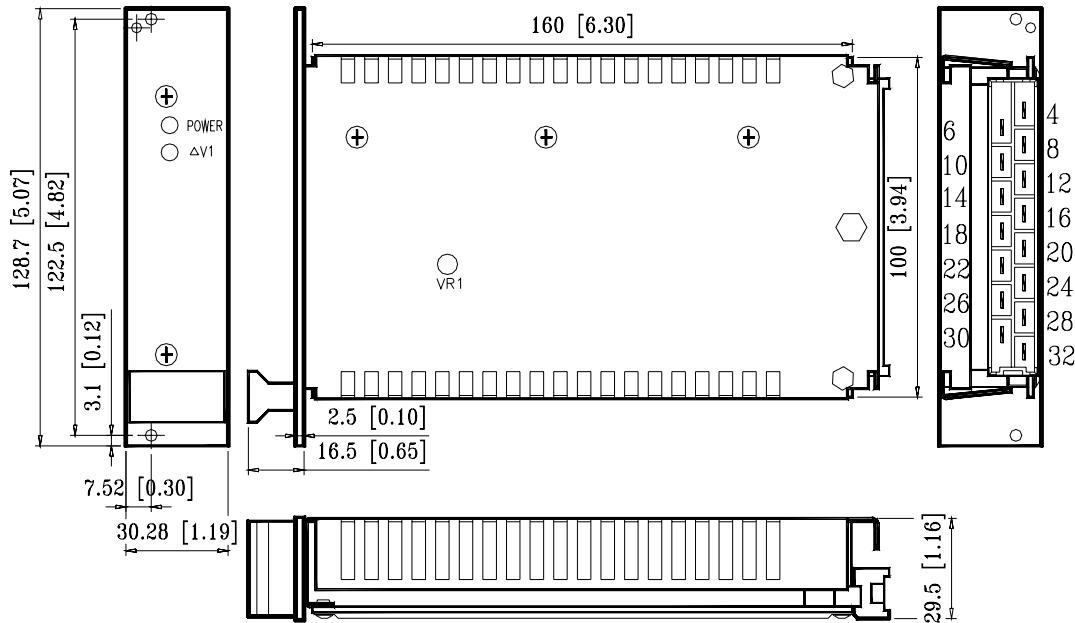
## TRIPLE OUTPUT

MODEL NO	MAIN VO1 ★@		AUX. VO2 ◇•		AUX. VO3 ◇•	
	Typ.	Volt.	Typ.	Volt.	Typ.	Volt.
HIU45-T030EE	5.0A	3.0V	3.0A	5.0V	1.0A	5.0V
HIU45-T030II	5.0A	3.0V	2.0A	12.0V	0.5A	12.0V
HIU45-T030KK	5.0A	3.0V	1.5A	15.0V	0.5A	15.0V
HIU45-T050DE	5.0A	5.0V	2.0A	3.0V	1.0A	5.0V
HIU45-T050DI	5.0A	5.0V	2.0A	3.0V	1.0A	12.0V
HIU45-T050II	4.0A	5.0V	1.5A	12.0V	1.0A	12.0V
HIU45-T050KK	4.0A	5.0V	1.2A	15.0V	0.8A	15.0V

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

## MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 593.0g (20.92 Oz.)



## INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

ASSIGNMENT	AC INPUT			SINGLE /DUAL/TRIPLE OUTPUT						ASSORTED SIGNAL			
	AC-L	AC-N	AC-G	+VO1	-VO1	+VO2	-VO2	+VO3	-VO3	S+	S-	P.F.	LOGIC INHIBIT
HIU45-1X	28	30	32	4,6	12,14	-	-	-	-	8	10	22	20
HIU45-2X	28	30	32	4	6	8	10	-	-	-	-	22	20
HIU45-3X	28	30	32	4,6	8,10	12	14	16	18	-	-	22	20

Mating connector: DIN41612-H15 Female.