

HiTRON

UNIVERSAL AC INPUT AC-DC 19" COMPATIBLE EUROCARD MULTIPLE OUTPUT 45 WATTS SWITCHING MODE POWER SUPPLIES HIU45 & HIU48 SERIES



FEATURES:

- ACCOMMODATE UNIVERSAL AC SOURCES
- 19" COMPATIBLE EUROCARD FORMAT
- INTERNAL OR-ING DIODE & THIRD-WIRE CURRENT SHARING FOR HIU48 SERIES
- 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: HIU45 0.34A/115Vac & 0.17A/230Vac.
HIU48 0.8A/115Vac & 0.4A/230Vac.
Dielectric Withstand: Meet IEC950.
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.
Overload Protection (OLP): Fully protected against output overload and short circuit.
Consult the factory for OLP setting.

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.
Current Sharing: HIU48 series only installed with internal OR-ing diode and third-wire current sharing method for N+1 redundancy operation.

GENERAL SPECIFICATION

Efficiency: Typ. 60-70%.
Switching Frequency: HIU45 45K Hz & HIU48 59K Hz.
Circuit Topology: Fixed frequency flyback circuit.
Transient Response: Output voltage returns in less than 3mS following a 25% load change.
Safety Standard: IEC950/ UL1950 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.



In application

OUTPUT VOLTAGE / CURRENT RATINGS CHART

HIU45 SERIES

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

HIU48 SERIES

SINGLE OUTPUT

MODEL NO	MAIN VO1 ★@#⊖≡	
	Typ.	Volt.
HIU48-S120040	4.0A	12.0V
HIU48-S240020	2.0A	24.0V
HIU48-S480010	1.0A	48.0V

Symbol: "≡" 3rd-wire current sharing.

TRIPLE OUTPUT

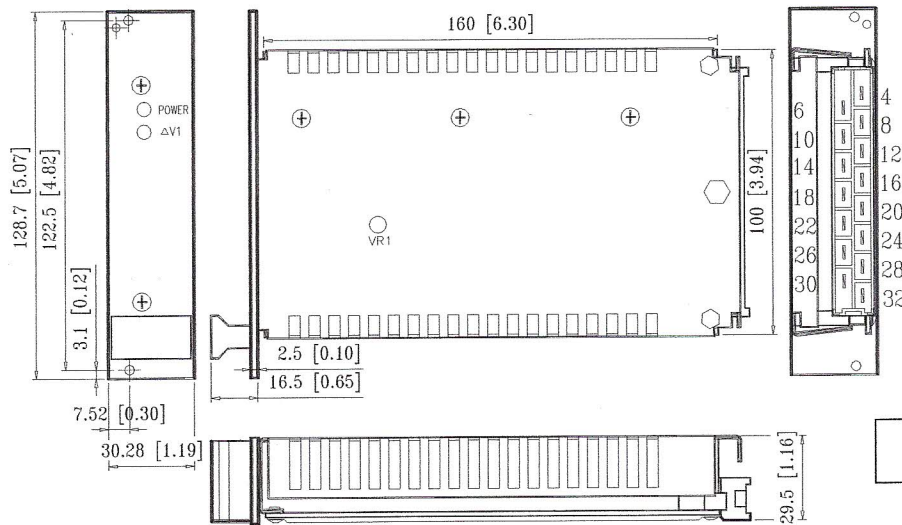
MODEL NO	MAIN VO1 ★@		AUX. VO2 ◇•		AUX. VO3 ◇•	
	Typ.	Volt.	Typ.	Volt.	Typ.	Volt.
HIU45-T030EE	5.0A	3.0V	3.0A	5.0V	1.0A	5.0V
HIU45-T030II	5.0A	3.0V	2.0A	12.0V	0.5A	12.0V
HIU45-T030KK	5.0A	3.0V	1.5A	15.0V	0.5A	15.0V
HIU45-T050DE	5.0A	5.0V	2.0A	3.0V	1.0A	5.0V
HIU45-T050DI	5.0A	5.0V	2.0A	3.0V	1.0A	12.0V
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: HIU45/48 593.0g (20.92 Oz.)



HIU45 & HIU48

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.

INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

ASSIGNMENT	AC INPUT			SINGLE OUTPUT		ASSORTED SIGNAL					
	AC-L	AC-N	AC-G	VO1	DC COM	OR-ING DIODE	S+	S-	≡	P.F.	N/C
HIU48	28	30	32	6	12,14	4	8	10	22	24	16,18,20,26

Mating connector: DIN41612-H15 Female.