

# HiTRON

## DUAL SELECTABLE AC INPUT AC-DC 19" COMPATIBLE DOUBLE EUROCARD MULTI-OUTPUT 300 WATTS SWITCHING MODE POWER SUPPLIES HSU300 SERIES



### FEATURES:

- DUAL INPUT RANGE USER SELECTABLE
- DOUBLE OR TRIPLE CONVERTER ARCHITECTURE
- 19" COMPATIBLE EUROCARD FORMAT
- MEET THE SAFETY STANDARDS
- EMI MEET CISPR PUB. 22 & FCC CLASS A
- CE MARKING COMPLIANCE
- 6U X 12HP X 160MM DOUBLE EUROCARD VMEbus STANDARD

### SPECIFICATION

#### INPUT SPECIFICATION

**Input Voltage:** 115Vac/230Vac dual selectable.  
**Input Connector:** DIN 41612.  
**Input Frequency:** 47-63Hz  
**Inrush Current:** Typ. 65A @230Vac.  
**Input Current:** 1.2A@115Vac/0.7A@230Vac.  
**Dielectric Withstand:** Meet IEC 60950-1.  
**EMI:** Meet CISPR PUB. 22 & FCC Class A.  
**Power Fail/OK:** Option.  
**Remote (Logic) Inhibit:** Available.  
**Hold-up Time:** Typ. 20ms.  
**Earth leakage:** Typ. 0.3mA @230Vac.  
**Over Temperature Protection (OTP):** Option.

#### OUTPUT SPECIFICATION

**Output Voltage:** See Ratings Chart.  
**Output Current:** See Ratings Chart.  
**Output Wattage:** Typ. 300 Watts.  
**Output Connector:** DIN 41612 at rear.  
**Line Regulation:** Typ. 0.4%.  
**Load Regulation:** VO1 typ.  $\pm 1.0\%$ (Main).  
VO2 typ.  $\pm 1.0\%$ (Main).  
VO3 typ.  $\pm 1.0\%$ (Main).  
**Noise & Ripple:** Typ. 1% peak to peak.  
**OVP:** Built-in at main VO1/VO2/VO3 (Latch).  
**Adjustability:** Available at main output VO1, VO2, VO3.  
**Remote Sense:** Installed at main VO1.  
**Overload Protection (OLP):** Fully protected against output overload and short circuit. Consult factory for OLP setting.

#### GENERAL SPECIFICATION

**Efficiency:** Typ. 75-80.0%.  
**Switching Frequency:** Typ. 100K Hz.  
**Circuit Topology:** Forward circuit. Triple converter.  
**Transient Response:** Typ. 3ms following a 25% load change.  
**Power Density:** 1.90 Watts / Cubic Inch.  
**Safety Standard:** IEC 60950-1/UL 60950-1 Class I.

**Operating Temperature:** 0 to +50°C at full load. Derates linearly to +70°C at half load.  
**Storage Temperature:** -20 to +85°C.  
**Temperature Coefficient:** Typ. 0.04%/°C.  
**Cooling:** At least 60cfm forced air flow is required for full load.  
**Construction format:** 12HP(TE)x6Ux160mm  
19" compatible double Eurocard VMEbus standard.

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



In application

# OUTPUT VOLTAGE / CURRENT RATINGS CHART

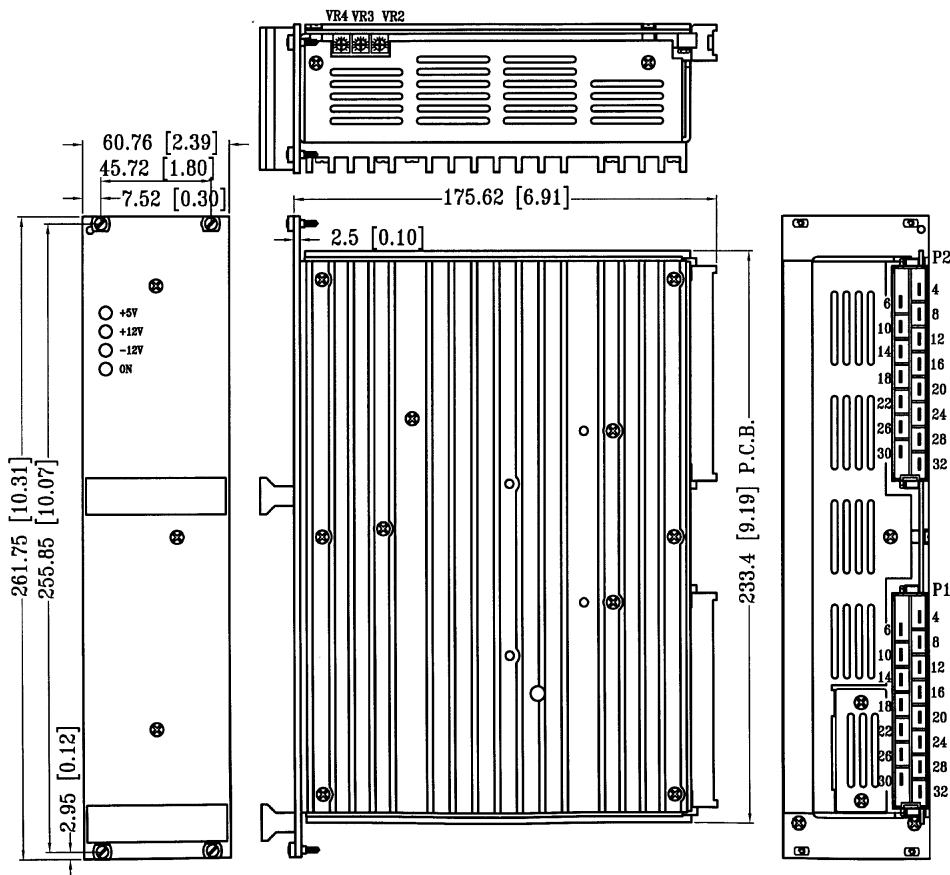
## TRIPLE OUTPUT

MODEL NO.	MAIN VO1 ★@#			MAIN VO2 @★			MAIN VO3 @★		
	Typ.	Volt.	Max.	Typ.	Volt.	Max.	Typ.	Volt.	Max.
<b>HSU300-T050H</b> (HSU300-32)	36.0A	<b>5.0V</b>	40A	6.0A	<b>12.0V</b>	12A	6.0A	<b>12.0V</b>	12A
<b>HSU300-T050KK</b>	36.0A	<b>5.0V</b>	40A	5.0A	<b>15.0V</b>	10A	5.0A	<b>15.0V</b>	10A
<b>HSU300-T050MI</b>	36.0A	<b>5.0V</b>	40A	3.0A	<b>24.0V</b>	6A	6.0A	<b>12.0V</b>	12A
<b>HSU300-T033H</b>	50.0A	<b>3.3V</b>	55A	6.0A	<b>12.0V</b>	12A	6.0A	<b>12.0V</b>	12A
<b>HSU300-T033EI</b>	50.0A	<b>3.3V</b>	55A	15.0A	<b>5.0V</b>	--	6.0A	<b>12.0V</b>	12A
<b>HSU300-T050DI</b>	36.0A	<b>5.0V</b>	40A	18.0A	<b>3.3V</b>	--	6.0A	<b>12.0V</b>	12A

Symbol: "★" OVP built-in. "@" Adjustable. "#" Remote sensing.

## MECHANICAL DIMENSIONS: MM [INCHES]

**WEIGHT: 2.75kg (6.06 lb.)**



## INPUT & OUTPUT CONNECTORS PIN ASSIGNMENTS

ASSIGNMENT	AC INPUT			TRIPLE OUTPUT					ASSORTED SIGNAL			
	AC-L	AC-N	AC-G	+VO1	+VO2	-VO3	DC COM	NC	S(+)	S(-)	SYS Reset	AC Fail
CNTR & PIN#	P1-28	P1-30	P1-32	P2-4,6,8,10,12	P2-28,30	P2-16	P2-18,20,22,24,26	P1-8,10,12,24,16,18,20,22,24,26	P2-14	P2-32	P1-6	P1-4

Mating connector: DIN41612-H15 Female