

# HiTRON

## DC-DC CONVERTER 19" COMPATIBLE EUROCARD TRIPLE OUTPUT 200 WATTS SWITCHING MODE POWER SUPPLIES HDU200 SERIES



### FEATURES:

- 12/24/48VDC 2:1 INPUT RANGE
- 19" COMPATIBLE EUROCARD FORMAT
- EMI MEET CISPR PUB. 22 & FCC CLASS A
- MEET THE SAFETY STANDARDS
- CE MARKING COMPLIANCE
- 6U X 12HP X 160MM VMEbus STANDARD

### SPECIFICATION

#### INPUT SPECIFICATION

**Input Voltage:** Three 2:1 ranges option.

A Range: 9-18Vdc nominal 12Vdc.

B Range: 18-36Vdc nominal 24Vdc.

C Range: 36-72Vdc nominal 48Vdc.

**Input Connector:** 2pcs X DIN 41612 at rear.

**Input Current:** @FL @NL

HDU200-A: 23.0A 0.40A

HDU200-B: 11.3A 0.21A

HDU200-C: 5.0A 0.10A

**Dielectric Withstand:** Meet IEC950.

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

**Power-on Indicator:** LED at front panel.

**Power OK Signal:** Installed.

**Remote (Logic) Inhibit:** Installed.

**Reflected Ripple Current:** Typ. 28mV pk-pk.

#### OUTPUT SPECIFICATION

**Output Voltage:** See Ratings Chart.

**Output Current:** See Ratings Chart.

**Output Wattage:** Typ. 200 Watts for HDU200.

**Output Connector:** 2pcs X DIN 41612 at rear.

**Output Indicator:** LEDs installed at front panel for all outputs.

**Line Regulation:** Typ. 0.2%.

**Load Regulation:** Main VO1 typ.  $\pm 1.0\%$ .

Aux. VO2 typ.  $\pm 2.0\%$ . (M.A.)

Aux. VO3 typ.  $\pm 2-3.0\%$ . (P.R.)

**Noise & Ripple:** Typ. 120mV peak to peak.

**OVP:** Built-in at main VO1 and VO2 (auto-recovery).

**Adjustability:** Available at main output VO1 and Aux. output VO2 (Mag. Amp.).

**Remote Sense:** Available at VO1 only.

**Overload Protection (OLP):** Fully protected against output overload & short circuit. Typ. 120-140%. Consult the factory for OLP setting.

#### GENERAL SPECIFICATION

**Efficiency:** Typ. 71.0-73.0%

**Switching Frequency:** Typ. 48K Hz.

**Circuit Topology:** Push-pull circuit.

**Transient Response:** Typ. 0.5mS following a 25% load change.

**Power Density:** 1.2 Watts / Cubic Inch.

**Operating Temperature:** 0 to +50°C at full load.

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

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

**Cooling:** Free air convection.

**Construction:** 12HP(TE)x6Ux160mm 19" compatible Eurocard VMEbus standard.

# OUTPUT VOLTAGE/CURRENT RATINGS CHART

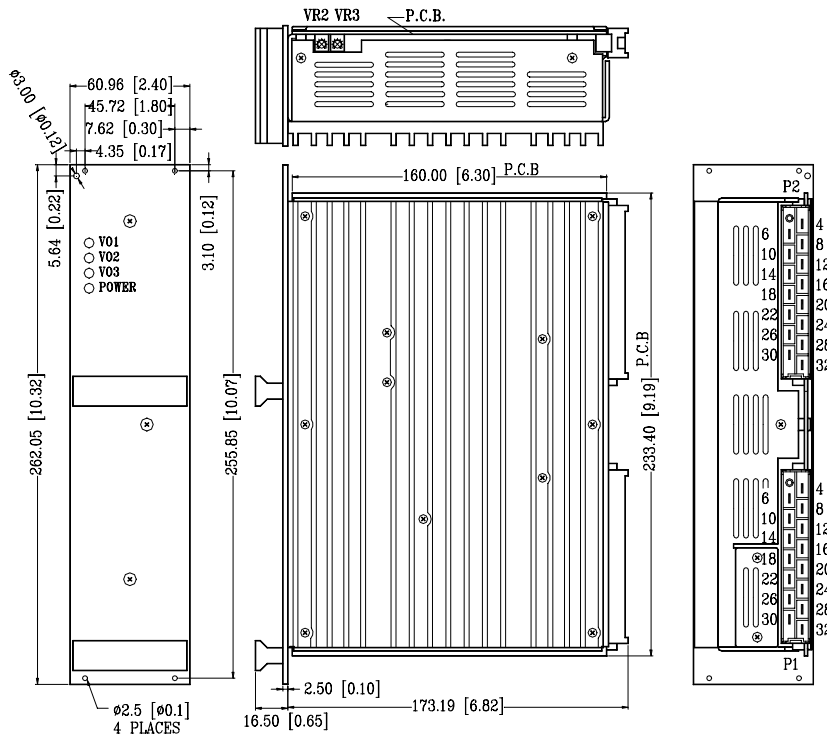
## TRIPLE OUTPUT

MDEL NO.	INPUT RANGE Vdc	OUTPUT VO1 ★@#◇				OUTPUT VO2 ★▲◇@				OUTPUT VO3 ●◇■			
		Min.	Typ.	Volt.	Max.	Min.	Typ.	Volt.	Max.	Min.	Typ.	Volt.	Max.
HDU200-A or B or C-T033EI	A: 9-18,B: 18-36,C: 36-72	6A	25A	3.3V	30A	0A	16A	5V	20A	0A	1A	12V	1.2A
HDU200-A or B or C-T033EK	A: 9-18,B: 18-36,C: 36-72	6A	25A	3.3V	30A	0A	16A	5V	20A	0A	1A	15V	1.2A
HDU200-A or B or C-T033EM	A: 9-18,B: 18-36,C: 36-72	6A	25A	3.3V	30A	0A	15A	5V	18A	0A	1A	24V	1.0A
HDU200-A or B or C-T033II	A: 9-18,B: 18-36,C: 36-72	6A	25A	3.3V	30A	0A	7A	12V	9A	0A	1A	12V	1.2A
HDU200-A or B or C-T050DI	A: 9-18,B: 18-36,C: 36-72	4A	20A	5.0V	25A	0A	20A	3.3V	25A	0A	1A	12V	1.2A
HDU200-A or B or C-T050II (HDU200-A or B or C-32)	A: 9-18,B: 18-36,C: 36-72	4A	20A	5.0V	25A	0A	7A	12V	9A	0A	1A	12V	1.2A
HDU200-A or B or C-T050KK	A: 9-18,B: 18-36,C: 36-72	4A	20A	5.0V	25A	0A	6A	15V	8A	0A	1A	15V	1.2A
HDU200-A or B or C-T050MI	A: 9-18,B: 18-36,C: 36-72	4A	20A	5.0V	25A	0A	3.5A	24V	4.5A	0A	1A	12V	1.2A

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

## MECHANICAL DIMENSIONS: MM [INCHES]

**WEIGHT: 2.1kg (4.63 lb.)**



## INPUT & OUTPUT CONNECTORS PIN ASSIGNMENTS

ASSIGNMENT	DC INPUT			TRIPLE OUTPUT				ASSORTED SIGNAL				
	+Vin	-Vin	G	VO1	VO2	VO3	DC COM	LOG. INH.	SYS Rest	+S	-S	POWER FAIL
Pin & CNTR.	P1-28	P1-30	P1-32	P2-4,6,8,10	P2-28,30	P2-16	P2-18,20,22,24,26	P1-8	P1-6	P2-14	P2-32	P1-4

Mating connector: DIN41612-H15 Female