

HiTRON

36-72VDC INPUT RANGE DC-DC OPEN FRAME TRIPLE OUTPUT 45-50 WATTS INTERNAL SWITCHING POWER CONVERTERS HDC46 SERIES



FEATURES:

- **LOW PROFILE & COMPACT SIZE**
- **36-72VDC NOMINAL 48VDC INPUT**
- **EMI MEET EN 55022 & FCC CLASS B**
- **CE MARKING COMPLIANCE**

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: Typ. 36-72Vdc, nominal input 48Vdc.
Input Connector: Terminal block.
Power On Switch: Installed.
Input Current: 1.2A @ nominal input 48Vdc.
Dielectric Withstand: Meet IEC950 regulation.
EMI: Meet EN55022 / FCC Class B.
Overload Protection (OLP): Fully protected against output overload or short circuit.
 Typical 120-150% max. load.
 Consult the factory for special OLP setting.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.
Output Current: See Ratings Chart.
Output Wattage: Typ. 46Watts continuous.
Output Connector: Output cable.
Line Regulation: Typ. 0.1-0.5%.
Load Regulation: Main VO1 typ. $\pm 1.0-2.0\%$.
 Aux. VO2 typ. $\pm 2.0-3.0\%$.(PR)
 Aux. VO3 typ $\pm 2.0-3.0\%$.(PR)
Noise & Ripple: Typ. 1% peak to peak.
OVP: Built-in at main VO1.
Adjustability: Available at main VO1.

GENERAL SPECIFICATION

Efficiency: Typ. 78%.
Switching Frequency: 40K Hz.
Circuit Topology: Fixed Frequency Flyback Circuit.
Transient Response: Typ. 2 mS following a 25% load change.
Safety Standard: UL1950 / Class I.
Power Density: 2.06Watts / Cubic Inch.

Operating Temperature: 0 to +50°C at full load,
 derating to half @ + 70°C.
Storage Temperature: -40°C to +85°C.
Temperature Coefficient: $\pm 0.04\%/^{\circ}\text{C}$.
Cooling: Convection cooling is adequate. Moving air is recommended for operating in a confined area.
Construction: Metal box format.

OUTPUT VOLTAGE/CURRENT RATINGS CHART

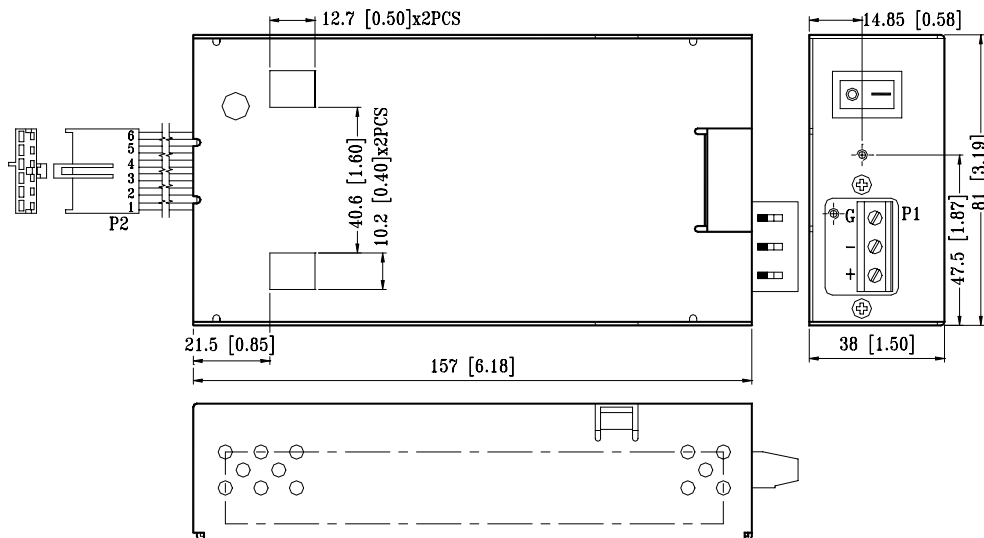
TRIPLE OUTPUT

MODEL NO.	MAIN VO1 @★			AUX. VO2●■			AUX. VO3 ●		
	Typ.	Volt.	Max.	Typ.	Volt.	Max.	Typ.	Volt.	Max.
HDC46-48B-T050II	5.0A	+5.0V	7.0A	1.2A	+12V	1.5A	0.5A	-12V	0.6A
HDC46-48B-T033EI	5.0A	+3.3V	6.0A	3.0A	+5V	3.5A	0.5A	-12V	0.6A

Symbol: "★" OVP built-in. "@" Adjustable. "■" Coupled common choke. "●" Installed with Post Regulator (PR).

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 607.0g (21.40 Oz.)



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

ASSIGNMENT	DC INPUT			TRIPLE OUTPUT			DC COM
	+Vin	-Vin	Gnd.	VO1	VO2	VO3	
CNTR & PIN #	P1-1	P1-2	GND	P2-3,4	P2-6	P2-1	P2-2,5