# **H**itron

**SPECIFICATION** 

# 36-72VDC INPUT RANGE DC-DC CONVERTER HOT-SWAP CompactPCI QUAD OUTPUT 200 WATTS ACTIVE CURRENT SHARING SWITCHING POWER SUPPLIES HDC201P-48B SERIES



## **FEATURES:**

- **200W 3U X 8HP EUROCARD PACKAGE**
- **36-72VDC NOMINAL 48VDC INPUT**
- INTERNAL OR-ING DIODES FOR N+1 REDUNDANCY
- **HOT-SWAPPABLE**
- THIRD-WIRE CURRENT SHARING
- EMI MEET EN 55022 / FCC CLASS B
- **CE MARKING COMPLIANCE**
- **FULLY COMPLIANT WITH PICMG**

OUTPUT SPECIFICATION							
Output Voltage: See Ratings Chart.							
Output Current: See Ratings Chart.							
Output Wattage: Typ. 200W continuous.							
Output Connector: Positronic 47-pin PCIH47M400A1.							
Line Regulation: Typ. 0.1%.							
Load Regulation: Typ. ±1.0-2.0%.							
Noise & Ripple: Typ. 1% peak to peak or 50mV,							
whichever is greater.							
<b>OVP:</b> Built-in at all outputs.							
Adjustability: Available at VO1,2&3.							
Output Trim: Electrical trim available at VO1/2.[ADJ #]							
Hot-Swap: Available.							
<b>Remote Sensing:</b> Available at VO1,VO2 & VO3.							
Power OK Signal: Available for all outputs.							
N+1 Redundancy: Installed with internal OR-ing diodes at							
all outputs for N+1 redundancy.							
<b>Current Sharing:</b> Third-wire current sharing at VO1,2&3.							
Over Current Protection (OCP): Installed in each rail.							
Overload Protection (OLP): Fully protected against							
output overload or short circuit. Typical 120% max. load.							
Consult the factory for special OLP setting.							

#### **GENERAL SPECIFICATION**

Efficiency: Typ. 79 %. Switching Frequency: 110K Hz. Circuit Topology: Forward circuit. Transient Response: Typ. 3mS following 25% load-change. Safety Standard: IEC 60950-1 Class I. Construction: Eurocard 3U X 8HP X 160mm CompactPCI format. Front Panel with either Ordinary handle or Extractor handle.

Operating Temperature: 0 to +50 °C at full load with specified air flow. Derates linearly to 50% at +70°C.
Storage Temperature: -40 to +85 °C.
Temperature Coefficient: Typ. ±0.02% / °C.
Cooling: At least 20 cfm(600 lfm) moving air is required to achieve full rating power 200W in a confined area.

either Ordinary handle or Extractor handle. **Power Density:** 3.7 Watts/ Cubic Inch. Note: Due to requests in market and advances in technology, specifications subject to change without notification.



# **OUTPUT VOLTAGE / CURRENT RATINGS CHART**

### **QUAD OUTPUT**

MODEL NO.	MAI	N +VC	01 @★	#≡⊙	AUX. +	VO2 ▲@	)★#≡⊙	AUX	. +VO3	<b>▲≡</b> #⊙	@★	AUXVO4 ●⊙★∎=				
	Min.	Тур.	Volt.	Max.	Тур.	Volt.	Max.	Тур.	Volt.	Max.	Pk.	Тур.	Volt.	Max.	Pk.	
HDC201P-48B-490(E)	2.0A	25A	+5V	33A	10A	+3.3V	33A	3.0A	+12V	5.0A	6.0A	0.5A	-12V	1.0A	1.0A	
HDC201P-48B-490(O)	2.0A	25A	+5V	33A	10A	+3.3V	33A	3.0A	+12V	5.0A	6.0A	0.5A	-12V	1.0A	1.0A	

Symbol: "★" OVP built-in. "@" Adjustable. "#" Remote sensing. "=" Droop Current Sharing. "=" 3rd wire Load Sharing.

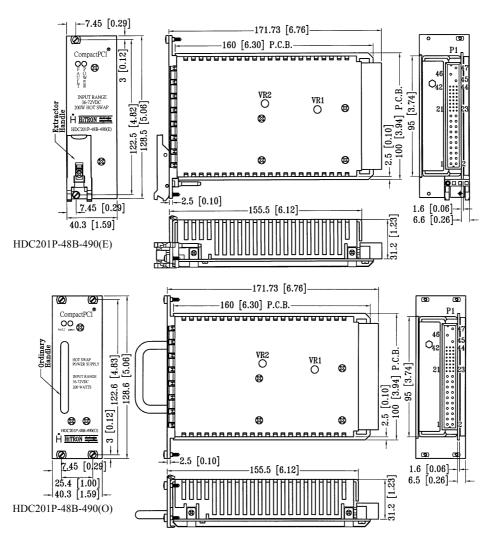
"⊙" Installed with Or-ing diode. "▲" Magnetic Amplifier. "●" Installed with Post-regulator. "∎" Common Choke.

**Remark:** Peak load less than 60sec. with duty cycle <10%.

Max. load is the continuous operating load of each rail. But the max. load of each rail can't be drawn from all outputs at the same time.

## **MECHANICAL DIMENSIONS: MM [INCHES]**

## WEIGHT: 666.0 g (23.5 Oz.)



#### **INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT**

	1	DC NPUT			QUAD OUTPUT											STATUS/CONTROL					
ASSIGNMENT	-Vin	+Vin	G	V01	S+	S-	Adj.	C.S.	VO2	S+	Adj.	C.S.	VO3	S+	C.S	VO4	DC COM	EN#	DEG#	INH#	FAL#
CNTR &PIN #	47	46	45	1,2, 3,4	30	34	29	35	13,14, 15,16, 17,18	33	32	41	20	36	44	21	5,6,7,8,9, 10,11,12, 19,22,24	27	38	39	42

Mating connector: PCIH47F400A1.