



- **200W 3U X 9HP EUROCARD PACKAGE**
- **36-72VDC NOMINAL 48VDC INPUT**
- **INTERNAL OR-ING DIODES FOR N+1 REDUNDANCY**
- **HOT-SWAPPABLE**
- **THIRD-WIRE CURRENT SHARING**
- **EMI MEET FCC CLASS B**
- **CE MARKING COMPLIANCE**
- **FULLY COMPLIANT WITH PICMG**

Input Voltage: Typ. 36-72Vdc, nominal input 48Vdc.

Input Connector: Positronic 47-pin PCIH47M400A1.

Inrush Current: Peak 6.76A @ nominal 48Vdc.

Input Current: 5.9A @ nominal input 48Vdc at full load.
0.2A @ nominal input 48Vdc at no-load.

Dielectric Withstand: Meet IEC 60950-1 regulation.

EMI: Meet FCC Class B.

Remote ON/OFF: Available at [INH#] & [EN#] pins.

Power Fail Signal: Available at [FAL#] pin.

Status LED: <Green> means valid input voltage.
<Amber> means a critical fault.

Thermal Protection (OTP): Installed NTC for thermal sensor at [DEG#] pin.

Output Voltage: See Ratings Chart.

Output Current: See Ratings Chart.

Output Wattage: Typ. 200W continuous.

Output Connector: Positronic 47-pin PCIH47M400A1.

Line Regulation: Typ. 0.2%.

Load Regulation: Typ. $\pm 1.0\%$.

Noise & Ripple: Typ 1% Pk.-Pk. or 50mV,
whichever is greater.

OVP: Built-in at all outputs.

Adjustability: Available at VO1,2,3 & 4.

Remote Sensing: Available at VO1,VO2 VO3 and VO4.

Hot-Swap: Available.

N+1 Redundancy: Installed with internal OR-ing diodes at
all outputs for N+1 redundancy operation.

Current Sharing: 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 120-150% max. load.
Consult the factory for special OLP setting.

Efficiency: Typ. 70 %.

Switching Frequency: 120K Hz.

Circuit Topology: Forward circuit.

Transient Response: Peak deviation is 420mV and recovers within 39.6mS for 50% load-change.

Safety Standard: IEC 60950-1 Class I.

Construction: Eurocard 3U X 9HP X 185mm CompactPCI format.

Operating Temperature: -5 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. $\pm 0.02\% / ^\circ\text{C}$.

Cooling: At least 14CFM moving air is required to
achieve full rating power 200W in a confined area.

Power Density: 2.85 Watts/ Cubic Inch.

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



In application

OUTPUT VOLTAGE / CURRENT RATINGS CHART

PENTA OUTPUT

MODEL NO.	MAIN +VO1★@#≡○				AUX. +VO2★@#≡○▲				AUX. +VO3★@#≡○▲				AUX. +VO4★@#≡○▲				AUX. VO5★○●◇			
	Min.	Typ.	Volt.	Max.	Min.	Typ.	Volt.	Max.	Min.	Typ.	Volt.	Max.	Min.	Typ.	Volt.	Max.	Min.	Typ.	Volt.	Max.
HDC203P-48B-P033BCEI(E)	1A	20A	3.3V	20A	0.5A	9A	5V	9A	0A	12A	2.5V	12A	0A	17A	1.5V	17A	1A	2A	12V	2A

Symbol: "★" OVP built-in. "@" Adjustable. "#" Remote sensing. "≡" 3rd-wire Load Sharing. "○" Floating.

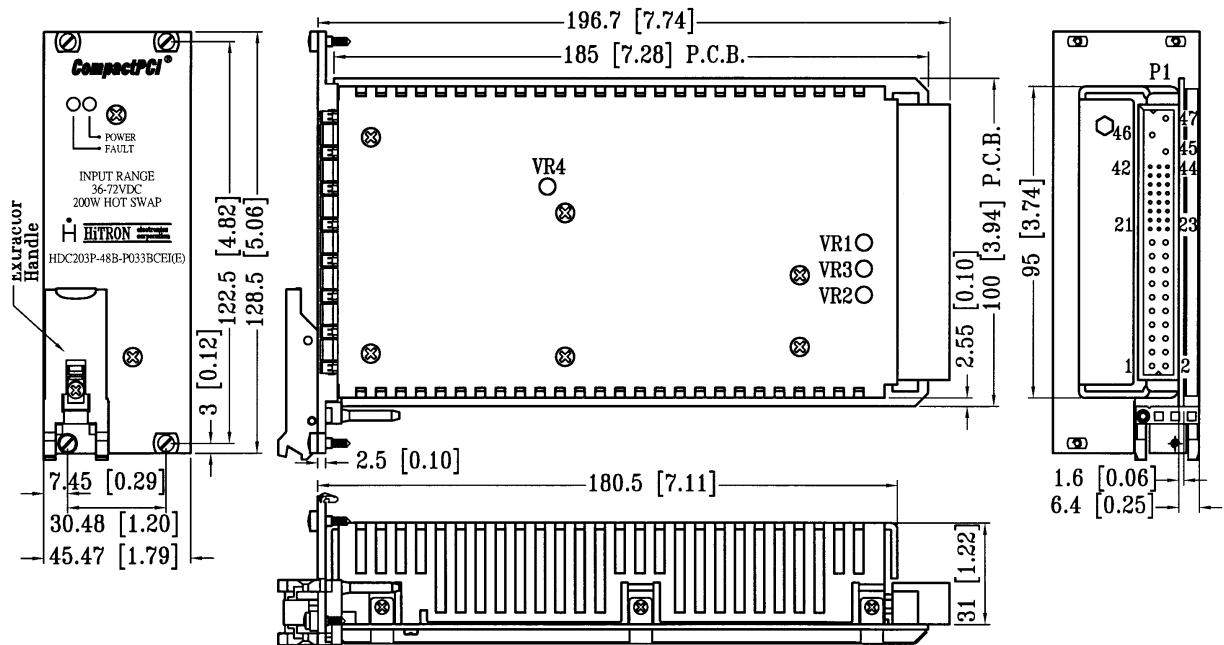
"○" Installed with Or-ing diode. "▲" Magnetic Amplifier. "●" Installed with Post Regulator.

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

ASSIGNMENT	DC INPUT			PENTA OUTPUT															
	+V	-V	G	V1	V2	V3	V4	DC COM	+V5	-V5	V1 S	V2 S	V3S	V4 S	-S	V1 CS	V2 CS	V3 CS	V4 CS
CNTR & PIN #	46	47	45	13,14,15,16,17,18	1	2	3,4	5,6,7,8,9,10,11,12,22,24	20	19	33	30	35	37	34	28	29	25	26
STATUS/CONTROL																			
ASSIGNMENT	EN	DEG	INH	FAL	CRD-EXEISIT 1		CRD-EXEISIT 0		SLOT_ID0		SLOT_ID1		I ² C_SDA		I ² C_SCL		NC		
CNTR & PIN #	27	38	39	42	31		32		40		41		43		44		21,23,36		

Mating connector: PCIH47F400A1.