H HiTRON

SPECIFICATION

UNIVERSAL AC INPUT HARMONIC CORRECTION AC-DC HOT-SWAP LOW VOLTAGE CompactPCI PENTA OUTPUT 200 WATTS ACTIVE CURRENT SHARING SWITCHING POWER SUPPLIES HAC203P SERIES



FEATURES:

- 200W 3U X 9HP EUROCARD PACKAGE
- **MEET IEC 61000-3-2 HARMONIC CORRECTION**
- **INTERNAL OR-ING DIODES FOR N+1 REDUNDANCY**
- **HOT-SWAPPABLE**
- THIRD-WIRE CURRENT SHARING
- EMI MEET EN 55022 / FCC CLASS A
- **CE MARKING COMPLIANCE**
- FULLY COMPLIANT WITH PICMG

INPUT SPECIFICATION	OUTPUT SPECIFICATION								
Input Voltage: Typ. 90-264Vac.	Output Voltage: See Ratings Chart.								
Power Factor Correction: Meet Harmonic Correction	Output Current: See Ratings Chart. Output Wattage: Typ. 200W continuous.								
IEC 61000-3-2.Power Factor typ. 0.97-0.98.	Output Connector: Positronic 47-pin PCIH47M400A1.								
Input Connector: Positronic 47-pin PCIH47M400A1.	Line Regulation: Typ. 0.2%.								
Input Frequency: 47-63Hz.	Load Regulation: Typ. ±1%.								
Inrush Current: 8.66Arms @ 230Vac.	Noise & Ripple: Typ. 1% peak to peak or 55mV, whichever is greater.								
Input Current: 2.5A @115Vac/1.18A @230Vac.	OVP: Built-in at all outputs. Adjustability: Available at VO1,2,3 & 4.								
Dielectric Withstand: Meet IEC 60950-1 regulation.									
EMI: Meet EN 55022 / FCC Class A.	Remote Sensing: Available at VO1, VO2, VO3 & VO4.								
Hold-up Time: 18.4mS @115Vac, 20.8mS @230Vac.	Hot-Swap: Available.								
Earth Leakage: Less than 0.64mA @230Vac.	N+1 Redundancy: Installed with internal OR-ing diodes at all outputs for N+1 redundancy operation.								
Remote ON/OFF: Available at [INH#] & [EN#] pins.	Current Sharing: Third-wire current sharing at VO1,2,3 &								
Status LED: <green> means valid input voltage.</green>	Over Current Protection (OCP): Installed at each rail.								
<amber> means a critical fault.</amber>	DC OK: Available at VO1,2,3,4 & 5.								
Thermal Protection (OTP): Installed NTC and thermostat for	Overload Protection (OLP): Fully protected against outp overload or short circuit. Typical 120-150% max. loa								
thermal sensor at [DEG#] pin.	Consult the factory for special OLP setting.								

GENERAL SPECIFICATION

Efficiency: Typ. 67-69 %. Switching Frequency: 133K Hz. Circuit Topology: Forward circuit. Transient Response: Peak transient less than 50mV and recovers within 0.96mS after 25% load-change. Safety Standard: IEC 60950-1 Class I. Construction: Eurocard 3U X 9HP X 185mm CompactPCI format.

& 4. ut ad. **Operating Temperature:** -5 to +50 °C at full load with specified air flow. Derates linearly to 50% at +60 °C.

Storage Temperature: -40 to +85 °C.

Temperature Coefficient: Typ. ±0.02% / °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.	Тур.	Volt.	Max.	Min.	Тур.	Volt.	Max.	Min.	Тур.	Volt.	Max.	Min.	Тур.	Volt.	Max.	Min.	Тур.	Volt.	Max.
HAC203P-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

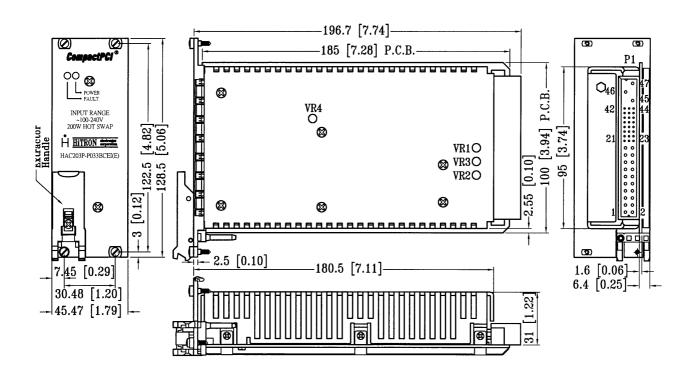
Symbol: "★" OVP built-in. "@" Adjustable. "#" Remote sensing. "≡" 3rd-wire Load Sharing. "◊" Floating. "⊙" Installed with Or-ing diode. "▲" Magnetic Amplifier. "•" Installed with Post Regulator.

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

	I	AC PENTA OUTPUT																		
ASSIGNMENT	L	Ν	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 #	47	46	45	13,14 16,1	4,15, 7,18	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	D	EG	INH	FAL		CRD- EXEISIT_1		CRD- EXEISIT_0	SLO	T_ID0	SI	SLOT_ID1		I ² C_SDA		I ² C_SCL		NC	
CNTR &PIN #	27	3	8	39	42		31		32	2	40		41		43		44		21,23,36	

Mating connector: PCIH47F400A1.