TOTAL POWER INT'L UNIVERSAL AC INPUT HARMONIC CORRECTION AC-DC HOT-SWAP **CompactPCI QUAD OUTPUT 200 WATTS ACTIVE CURRENT SHARING** SWITCHING POWER SUPPLIES TPAC200P SERIES



FEATURES:

- 200W 3U X 8HP EUROCARD PACKAGE
- **MEET IEC1000-3-2 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

SPECIFICATION	
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.
IEC1000-3-2.Power Factor typ. 0.96-0.98.	Output Wattage: Typ. 200W continuous.
Input Connector: Positronic 47-pin PCIH47M400A1.	Output Connector: Positronic 47-PIN
Input Frequency: 47-63Hz.	PCIH47M400A1 connector.
Inrush Current: Less than 30.6A @ 230Vac.	Line Regulation: Typ. 0.1%.
Input Current: 2.3A @115Vac/1.2A @230Vac.	Load Regulation: VO1 & VO2 typ. ±1.0%.
Dielectric Withstand: Meet IEC950 regulation.	VO3 & VO4 typ. ±2.0%.
EMI: Meet EN55022 / FCC Class A.	Noise & Ripple: Typ. 1% peak to peak or 50mV,
Hold-up Time: 10mS after power fail signal.	which is greater.
Turn-on Delay/Rise Time: 1 Sec./20 mS.	OVP: Built-in at all outputs.
Earth Leakage: Less than 0.5mA @230Vac.	Adjustability: Available at VO1,2&3.
Remote ON/OFF: Available at [INH#] & [EN#] pins.	Output Trim: Electrical trim available at VO1&2. [ADJ #].
Power Fail Signal: Available at [FAL#] pin.	Remote Sensing: Available at VO1, VO2 & VO3.
Status LED: <green> means valid input voltage.</green>	Hot-Swap: Available.
<amber> means a critical fault.</amber>	N+1 Redundancy: Installed with internal OR-ing diodes at
Thermal Protection (OTP): Installed NTC and thermostat.	all outputs for N+1 redundancy operation.
for thermal sensor at [DEG#] pin.	Current Sharing: Third-wire current sharing at VO1,2 & 3.
Leakage Current: Typ. 0.5A.	Overload Protection (OLP): Fully protected against output
Power OK Signal: Available at all output.	overload or short circuit. Typ. set at 130% max. load.
Over Current Protection (OCP): Installed in each rail.	Consult the factory for special OLP setting.

GENERAL SPECIFICATION

Efficiency: Typ. 76-79 %. Switching Frequency: 130K Hz. Circuit Topology: Forward circuit. Transient Response: Peak transient less than 100mV and recovers within 3mS after 25% load-change. Safety Standard: IEC60950 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 20cfm (600 lfm) moving air is required to achieve full rating power 200W in a confined area. Power Density: 3.73 Watts/ Cubic Inch.

Remark: All measurements are at nominal input, full load and +25°C unless otherwise specifications.







In application

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OUTPUT VOLTAGE/CURRENT RATINGS CHART

QUAD OUTPUT

MODEL NO.	MAI	N +VO	1@★	#≡⊙	AUX. +	VO2 ▲@	★#≡⊙	AUX	K. +VO	3 ▲≡#	•@	AUX. –VO4 ● ⊙ ∎=			
	Min.	Тур.	Volt.	Max.	Тур.	Volt.	Max.	Тур.	Volt.	Max.	Peak	Тур.	Volt.	Max.	Peak.
TPAC200P-490(E)	2.0A	25.0A	+5V	33.0A	10.0A	+3.3V	33.0A	3.0A	+12V	5.0A	6.0A	0.5A	-12V	1.0A	1.0A
TPAC200P-490(O)	2.0A	25.0A	+5V	33.0A	10.0A	+3.3V	33.0A	3.0A	+12V	5.0A	6.0A	0.5A	-12V	1.0A	1.0A

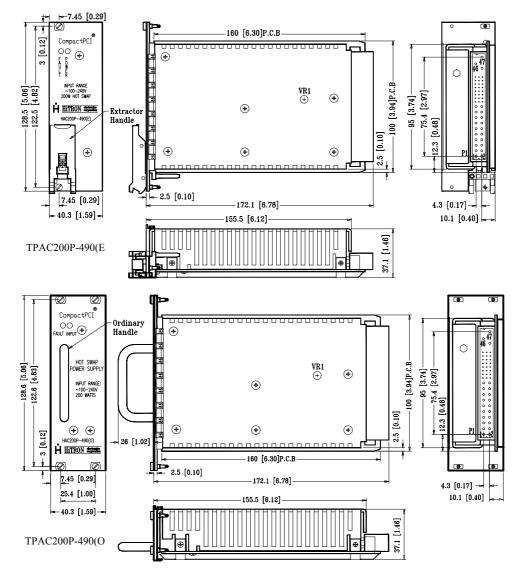
Symbol: "★" OVP built-in. "@" Adjustable. "#" Remote sensing. "≡" 3rd- wire Load Sharing. "=" Droop Current Sharing. "⊙" Installed with Or-ing diode. "▲" Magnetic Amplifier. "●" Installed with Post-regulator. "∎" Common Choke.

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

	Ι	AC NPU		QUAD OUTPUT											STATUS/CONTROL						
ASSIGNMENT	L	Ν	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.

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