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

Input Voltage: Typ. 90-264Vac.

Power Factor Correction: Meet Harmonic Correction IEC1000-3-2.Power Factor typ. 0.96-0.98. Input Connector: Positronic 47-pin PCIH47M400A1.

Input Frequency: 47-63Hz.

Inrush Current: Less than 30.6A @ 230Vac. Input Current: 2.3A @115Vac/1.2A @230Vac. Dielectric Withstand: Meet IEC950 regulation.

EMI: Meet EN55022 / FCC Class A.

Hold-up Time: 10mS after power fail signal. Turn-on Delay/Rise Time: 1 Sec./20 mS. Earth Leakage: Less than 0.5mA @230Vac.

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 and thermostat.

for thermal sensor at [DEG#] pin.

Leakage Current: Typ. 0.5A.

Power OK Signal: Available at all output.

Over Current Protection (OCP): Installed in each rail.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.
Output Current: See Ratings Chart.
Output Wattage: Typ. 200W continuous.
Output Connector: Positronic 47-PIN

PCIH47M400A1 connector.

Line Regulation: Typ. 0.1%.

Load Regulation: VO1 & VO2 typ. ±1.0%.

VO3 & VO4 typ. ±2.0%.

Noise & Ripple: Typ. 1% peak to peak or 50mV,

which is greater.

OVP: Built-in at all outputs.

Adjustability: Available at VO1,2&3.

Output Trim: Electrical trim available at VO1&2. [ADJ #].

Remote Sensing: Available at VO1, VO2 & VO3.

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. Overload Protection (OLP): Fully protected against output overload or short circuit. Typ. set at 130% max. load.

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

OUTPUT VOLTAGE/CURRENT RATINGS CHART

QUAD OUTPUT

MODEL NO.	MAI	N +VO	1 @★	#≡⊙	AUX.+V	AUX	. +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

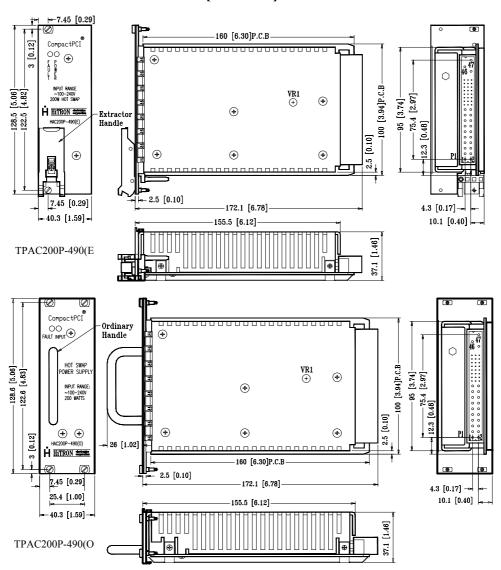
Symbol: "★" OVP built-in. "@" Adjustable. "#" Remote sensing. "≡" 3rd- wire Load Sharing. "=" Droop Current Sharing.

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.

WEIGHT: 666.0 g (23.5 Oz.)

MECHANICAL DIMENSIONS: MM [INCHES]



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

	AC INPUT			QUAD OUTPUT													STATUS/CONTROL				
ASSIGNMENT	L	N	G	VO1	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.

[&]quot;⊙" Installed with Or-ing diode. "▲" Magnetic Amplifier. "•" Installed with Post-regulator. "■" Common Choke.