TOTAL POWER INT'L UNIVERSAL AC INPUT HARMONIC CORRECTION AC-DC HOT-SWAP CompactPCI QUAD OUTPUT 300 WATTS ACTIVE CURRENT SHARING SWITCHING POWER SUPPLIES TPAC300P SERIES



FEATURES:

- **300W 6U 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 B
- **CE MARKING COMPLIANCE**
- **FULLY COMPLIANT WITH PICMG**

SPECIFICATION

INPUT SPECIFICATION OUTPUT SPECIFICATION Input Voltage: Typ. 90-264Vac. Output Voltage: See Ratings Chart. Output Current: See Ratings Chart. Input On/Off switch: Option. Output Power: Typ. 300W continuous. **Power Factor Correction:** Meet Harmonic Correction Output Connector: Positronic 47-pin PCIH47M400A1. IEC1000-3-2. Power Factor typ.0.99. Line Regulation: Typ. 0.1%. **Input Connector:** Positronic 47-pin PCIH47M400A1. Load Regulation: VO1 & VO2 typ.±0.5-1.0%. Input Frequency: 47-63Hz. VO3 & VO4 typ.±1.0-3.0%. Inrush Current: Typ. 30A @ 230Vac.(Active). Noise & Ripple: Typ. 1% peak-peak or 50mV, which is greater. **Input Current:** Typ. 4.0A@115Vac/2.0A @ 230Vac. OVP: Built-in at all outputs. Dielectric Withstand: Meet IEC950 regulation. Adjustability: Available at VO1, 2 &3. Transient Protection: MOV withstands transient as Output Trim: Electrical trim available at VO1 / VO2.[ADJ #]. **Remote Sensing:** Available at VO1, VO2 & VO3. specified by EN61000-4-4 level 3. Hot-Swap: Available EMI: Meet EN55022 / FCC Class B. **N+1 Redundancy:** Installed with internal OR-ing diodes at all Hold-up Time: Typ. 30mS @ 115Vac,34mS @ 230Vac. outputs and third-wire current sharing **Remote ON/OFF:** Available at [INH#] & [EN#] pins. method for N+1 redundancy operation. Power Fail Signal: Available at [FAL#] pin. Current Sharing: Third-wire current sharing at VO1,2&3. Status LED: <Green> means valid input voltage. DC OK Signal: Available for all outputs. <Amber> means a critical fault. Power OK Signal: Available for all outputs. Thermal Protection (OTP): Installed NTC and thermostat Over Current Protection (OCP): Installed at each rail. for thermal sensor at [DEG#] pin. **Overload Protection (OLP):** Fully protected against output overload or short circuit. Typ. 120-130% max. load. Power OK: Installed at all outputs. Consult the factory for special OLP setting. Leakage Current: Typ. 0.7A @ 230Vac.

GENERAL SPECIFICATION

Efficiency: Typ. 80-83 %.
Switching Frequency: 120K Hz.
Circuit Topology: Forward circuit.
Transient Response: Peak transient less than 200mV and returns to within 1% less than 250µS for 25% load-change.
Safety Standard: IEC60950 Class I.
Construction: Eurocard 6U X 8HP X 160mm CompactPCI format. Front Panel with Extractor handle.

Operating Temperature: 0 to +50 $^{\circ}\mathrm{C}$ 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 moving air is required to achieve

full rating power 300W in a confined area.

Extractor handle.Power Density: 2.70 Watts/ Cubic Inch.

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

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OUTPUT VOLTAGE/CURRENT RATINGS CHART

QUAD OUTPUT

MODEL NO.	MA	AIN +V	01 @★	#≡⊙	AUX. +VO2 @★#≡⊙				AUX. +VO3			#⊙★	r @	AUX. –VO4 ● ⊙ ★				
	Min.	Тур.	Volt.	Max.	Min.	Тур.	Volt.	Max.	Min.	Тур.	Volt.	Max.	Pk.	Min.	Тур.	Volt.	Max.	Pk.
TPAC300P-490	2A	20A	+5V	35A	0A	20A	+3.3V	25A	0A	10A	+12V	12A	15A	0A	0.8A	-12V	1A	1.5A

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

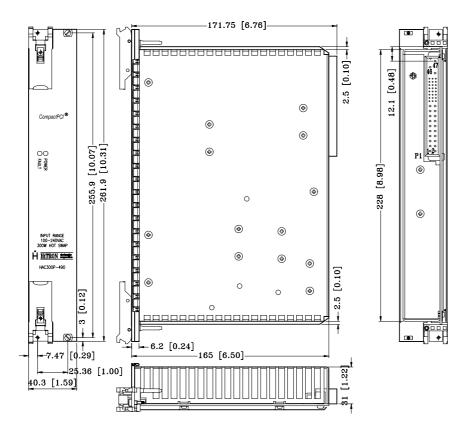
"⊙" Installed with Or-ing diode. "▲" Magnetic Amplifier. "•" Installed with Post-regulator. "■" Common Choke.

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: 1.7kg (3.75 lb.)



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

		AC NPUT	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		32	41	20	36	44	21	5,6,7,8,9, 10,11,12, 19,24	27	38	39	42

Mating connector: PCIH47F400A1.