

**3U 8HP 250W P47**

**AC/DC**



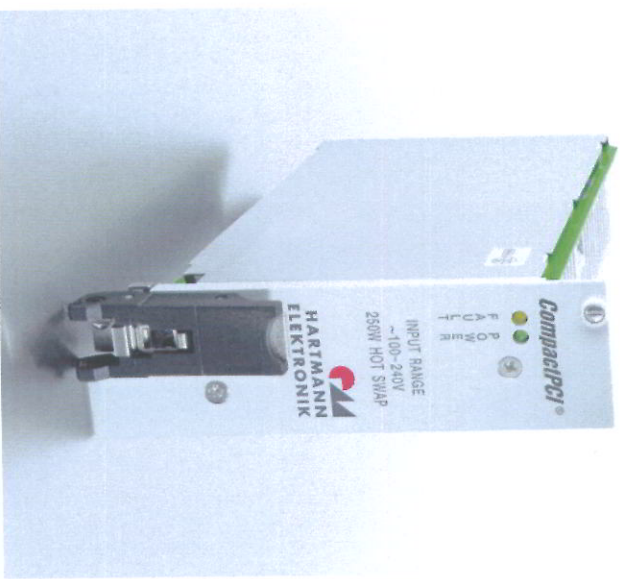
## Key figures:

**Partnumber: D575.00171**

- Wide range input voltage from 90-264Vac
- 250W 3U 8HP Euro card package
- Hot swap and redundancy operation with current share bus
- Power Factor Correction (PFC)
- Meet IEC 61000-3-2 harmonic correction
- Internal or-ing diodes for N+1 redundancy
- EMI meet EN 55022 / FCC class A
- Fully compliant with PIGMG
- CE marking compliance
- Coated according to MIL-I-460580

## General specification:

- Operating temperature: 0° - +50°C at full load with specified air flow
- Storage temperature: -40°C - +85°C
- Temperature Coefficient: Typ.  $\pm 0.02\%$  / °C
- Cooling: At least 20 CFM(600 LFM) moving air is required to achieve full rating power 250W in a confined area
- Power Density: 4.58 Watts/ Cubic Inch.
- Efficiency: Typ. 76-77 %
- Switching Frequency: 120K Hz
- Circuit Topology: Forward circuit
- Transient Response: Peak transient less than 100mV and recovers within 2mS after 25% load-change
- Safety Standard: IEC 60950-1 Class I
- Coated pcb with Cramilin 120 Plastic according to MIL-I-460580 „Type Acrylic Resin“
- CompactPCI format, Front Panel with Extractor handle
- Construction: Eurocard 3U 8HP 160mm



## POWER SUPPLY

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## ELECTRICAL SPECIFICATION

### INPUT SPECIFICATION

Input Voltage:	Typ. 90-264Vac
Power Factor Correction:	Meet Harmonic Correction IEC 61000-3-2, Power Factor typ. 0.95-0.97
Input Connector:	Positronic 47-pin PCIH47M400A1
Input Frequency:	47-63Hz
Inrush Current:	Less than 30A @ 230Vac
Input Current:	2.8A @115Vac/1.4A @230Vac
Dielectric Withstand:	Meet IEC 60950-1 regulation
EMI:	Meet EN 55022 / FCC Class A
Hold-up Time:	5mS after power fail signal
Earth Leakage:	Less than 0.5mA @230Vac
Remote ON/OFF:	Available at [INH#] & [EN#] pins
Power Fail Signal:	Available at [FAL#] pin
Thermal Protection (OTP):	Installed NTC and thermostat for thermal sensor at [DEG#] pin
Status LED:	<Green> means valid input voltage <Amber> means a critical fault

### OUTPUT SPECIFICATION

Output Voltage:	See Ratings Chart
Output Current:	See Ratings Chart
Output WAttage:	Typ. 250W continuous
Output Connector:	Positronic 47-pin PCIH47M400A1
Line Regulation:	Typ. 0.1%
Load Regulation:	Typ. ±1-2%
Noise & Ripple:	Typ. 1% peak to peak or 50mV, whichever is greater
OVP:	Built-in at all outputs
Adjustability:	Available at VO1,2 & 3
Output Trim:	Electrical trim available at VO1/VO2.[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
Power OK Signal:	Available for all output.
Over Current Protection(OCP):	Installed at each rail
Overload Protection (OLP):	Fully protected against output overload or short circuit. Typical 120% max. load. Consult the factory for special OLP setting.

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

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### INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

Assignment	QUAD OUTPUT													STATUS CONTROL																																							
	AC INPUT			VO1			S+			Adj			C.S			VO2			S+			Adj			C.S			VO3			S+			C.S			VO4			DC COM			EN#			DEG#			INH#			FAL#	
CNTR & PIN	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#	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: PCH47F400A1

### OUTPUT VOLTAGE / CURRENT RATINGS CHART

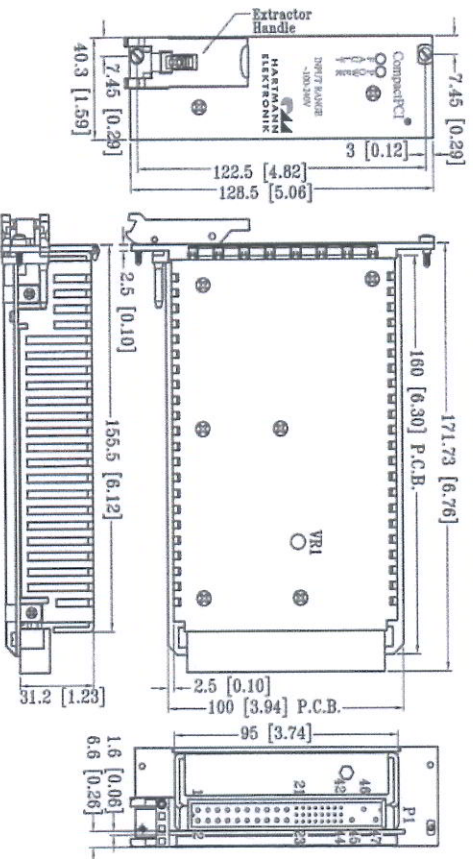
4 OUTPUT	MAIN+VO1 @*#⊖	AUX. +VO2 ▲@*#⊖	AUX. +VO3 ▲#⊖*⊕@	AUX. -VO4 ▲⊖*										
Model No.	Mi.n.	Ty p	Volt/Max Min	Typ.	Volt. Max	Min.	Typ.	Volt. Max.	Pk.	Min.	Typ	Volt.	Max.	Pk.
D575.00171	0 A	25 A	+5V/33A 0A	18A	+3.3V/33A 0A	5A	+12A/5,5A	6A	0A	0.5A	-12V	1A	1,5A	

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.

Remark: Peak load less than 60sec. w/ith duty cycle <10%

Symbol:

- "\*" OVP built-in
- "@ " Adjustable
- "#" Remote sensing
- "≡" 3rd-wire Load Sharing
- "=" Droop Current Sharing
- "⊖" Installed w/ith Or-ing diode
- "▲" Magnetic Amplifier
- "⊕" Installed w/ith Post-regulator
- "■" Common Choke



Mechanical dimensions: (inches)

Weight: 666.0 g (23.5 Oz.)

For the details of safety approval, please consult the factory