

**6U 8HP 400W P47**

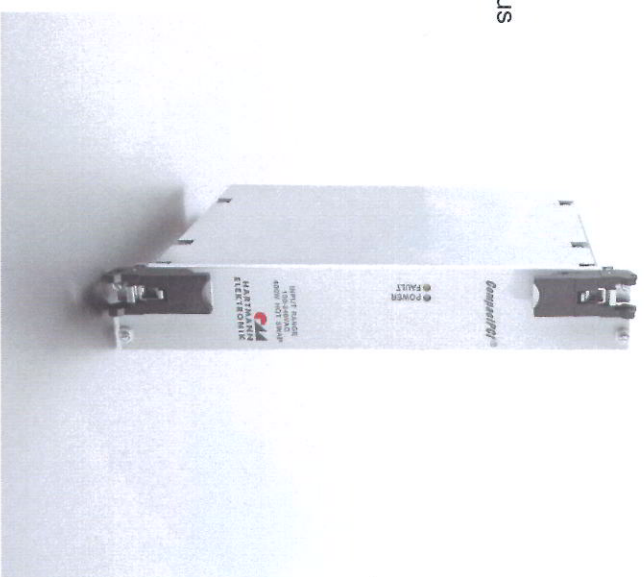
**AC/DC**



## Key figures:

- Wide range input voltage from 90-264Vac
- 400W 6U 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 B
- Fully compliant with PIGMG
- CE marking compliance
- Coated according to MIL-I-460580

**Partnumber: D575.00181**



## General specification:

- Operating temperature: 0° - +50°C at full load with specified air-flow. Derates linearly to 50% at +70°C
- Storage temperature: -40°C - +85°C
- Temperature Coefficient: Typ.  $\pm 0.04\%$  / °C
- Cooling: At least 20 CFM(600 LFM) moving air is required to achieve full rating power 400W in a confined area.
- Power Density: 3.98 Watts/ Cubic Inch.
- Efficiency: Typ. 76-81 %
- Switching Frequency: 120K Hz
- Circuit Topology: Forward circuit
- Transient Response: Peak transient less than 250mV and returns to within 1% less than 1mS for 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 6U 8HP 160mm

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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. 0.99
Input Connector:	Positronic 47-pin PCIH47M400A1
Input Frequency:	47-63Hz.
Inrush Current:	Less than 30A @ 230Vac
Input Current:	5.1A @115Vac/ 2.6A @230Vac
Dielectric Withstand:	Meet IEC 60950-1 regulation
EMI:	Meet EN 55022 / FCC Class B
Leakage Current:	Typ. 0.7mA@ 230Vac
Hold-up Time:	30mS @115Vac/ 34mS @230Vac
Transient Protection:	MOV withstands transient as specified by EN61000-4-4 level 3
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. 400-450W continuous
Output Connector:	Positronic 47-pin PCIH47M400A1
Line Regulation:	Typ. 0.1%
Load Regulation:	Typ. VO1 typ. ±1,0%, VO2 typ. ±1,5%, VO3 typ. ±3,0%, VO4 typ. ±3,0%
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 and third-wire current sharing method 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. Typ. 120-130% 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

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 3,4	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 19,24	27	38	39	42

Mating connector: PCIH47F400A1

## OUTPUT VOLTAGE / CURRENT RATINGS CHART

4 OUTPUT	MAIN+VO1 @*#≡⊙					AUX.+VO2 ▲@*#≡⊙					AUX.+VO3 ▲≡#⊙*#@					AUX.-VO4 ▲⊙*#				
Model No.	Min.	Typ	Volt	Max	Min	Typ.	Volt.	Max	Min.	Typ.	Volt.	Max.	Pk.	Min.	Typ	Volt.	Max.	Pk.		
D575.00181	4A	40 A	+5V	55A	0A	20A	+3.3V	55A	0A	10A	+12A	14A	15A	0A	3A	-12V	4A	5A		

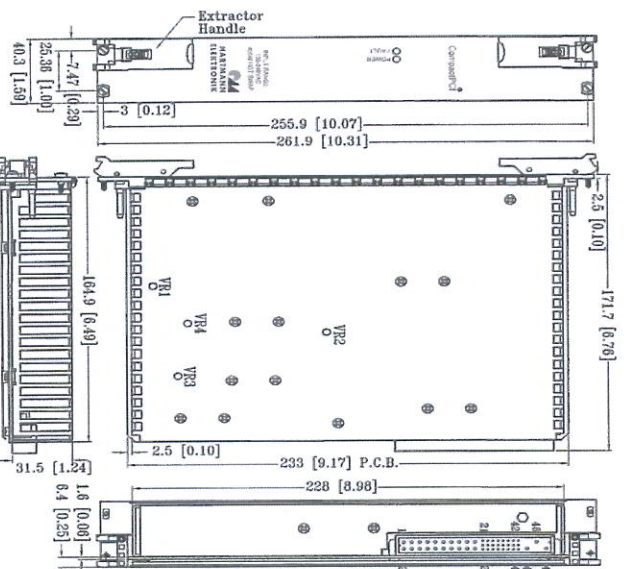
Max. load is the continuous operating load of each rail. But the max. load of each rail can't be drawn from all outputs at the same time

Total max. power of VO1 and VO2 should be less than 300W

Remark: Peak load less than 60sec. with duty cycle <10%

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



Mechanical dimensions: mm (Inches)

Weight: 1,7 kg (3.75 Oz.)

For the details of safety approval, please consult the factory