

**Key features:****Part No: D575.00200**

- Input voltages 90-264 VAC
- 500W 6U 8HP Euro card package
- Power factor correction (PFC)
- Hot swap and redundancy operation with current share bus
- Meet IEC 61000-3-2 harmonic correction
- Internal OR-ring diode for N+1 redundancy.
- EMI meet CISPR EN55032, FCC Class A
- Fully compliant with PICMG
- CE marking compliance.
- Conformal coated

**General Specification:**

- Operating temperature: -30°C to +50°C at full load with specified airflow. Derates linearly to 50% at +70°C
- Storage temperature: -40 °C to +85 °C.
- Temperature Coefficient: Typ±0.04% / °C
- Cooling: min 800 LFM moving air required to achieve full power 500 W in confined area
- Power density: 5.00 Watts/Cubic inch.
- Efficiency: Typ. 75%@115Vac, 77%@230Vac.
- Switching frequency: 120K Hz
- Transient response: Peak transient < 250 mV & returns to within 1% <0.5ms for 50% load-change
- Safety standard: IEC60950-1, IEC62368-1, Class I
- Construction: CPCI format, Eurocard 6U 8HP 160 mm Front panel with extractor handle.

NOTE: (1)All measurement are at nominal input, full load and +25°C unless otherwise specifications.

(2)Due to requests in market and advances in technology, specifications subject to change without notification.



Electrical Specification

Input Specification

Input voltages:	Typ. 90-264V ac.
Power factor correction:	Meet Harmonic correction IEC 61000-3-2. Power factor Typ. 0.99
Input connector:	Positronics 47-Pin PCIH47M400A1
Input frequency:	47-63Hz.
Inrush current:	≤ 20 A (rms) at 230V ac
Input current:	TYP 5.6A @115Vac, 2.7A@230Vac
Dielectric withstand:	IEC 60950-1, IEC 62368-1 regulation.
Transient protection:	MOV withstand transient as specified by IEC 61000-4-4 Level 2.
EMI:	Meet EN 55032/FCC Class A.
Leakage current:	Typ. 0.7mA @230V ac
Hold up time:	19mS at 115Vac & 230Vac.
Remote ON/OFF:	Available at [INH#] & [EN#] pins.
Power fail signal:	Available at [FAL#]
Status LED:	<Green> means Valid input voltage <Amber> means a critical fault.
Thermal protection (OTP):	Installed NTC for thermal sensor at [DEG#] pin.

Output specification

Output Power:	Typ. 500 W continuous.
Output connector:	Positronics 47-pin PCIH47M400A1.
Line regulation:	Typ. 0.1%
Load regulation:	Typ. VO 1/2± 5%, VO3± 3%, VO4± 3%
Noise & Ripple:	1% peak-peak or 50mV, whichever is greater.
OVP:	Built-in all outputs.
Adjustability:	Available for VO1, VO2, VO3.
Output trim:	Electrical trim available at VO1/VO2 [ADJ#]
Remote sensing:	Available for VO1, VO2, VO3.
Hot swap:	Available
N+1 Redundancy:	Available with OR-ring diodes at all outputs and third wire current sharing method N+1 redundancy
Current sharing:	Third wire current sharing at VO1, 2 & 3.
Power OK signal:	Available for all outputs.
Over current protection(OCP):	Installed at each rail.
Overload protection (OLP):	OLP is set as 105-150% of rated full load. A different power unit will have different OLP set point. (consult factory for special OLP setting)

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POWER SUPPLY

HARTMANN ELECTRONIC

6U 8HP 500W P47

AC/DC



OUTPUT VOLTAGE/CURRENT RATING CHART

QUAD OUTPUT

MODEL NO.	MAIN +VO1 @★#≡○				AUX. +VO2 ▲@★#≡○				AUX. +VO3 ▲#≡○★@					AUX. -VO4 @▲○★				
	Min.	Typ.	Volt.	Max.	Min.	Typ.	Volt.	Max.	Min.	Typ.	Volt.	Max.	Pk.	Min.	Typ.	Volt.	Max.	Pk.
D575.00200	4A	50A	+5V	60A	0A	30A	+3.3V	60A	0A	10A	+12V	14A	15A	0A	3A	-12V	4A	5A

Remark: Peak load less than 60 sec. with duty cycle <10%. Maximum load is the continuous operating load of each rail. But Maximum load of each rail can't be drawn from all the output at the same time.

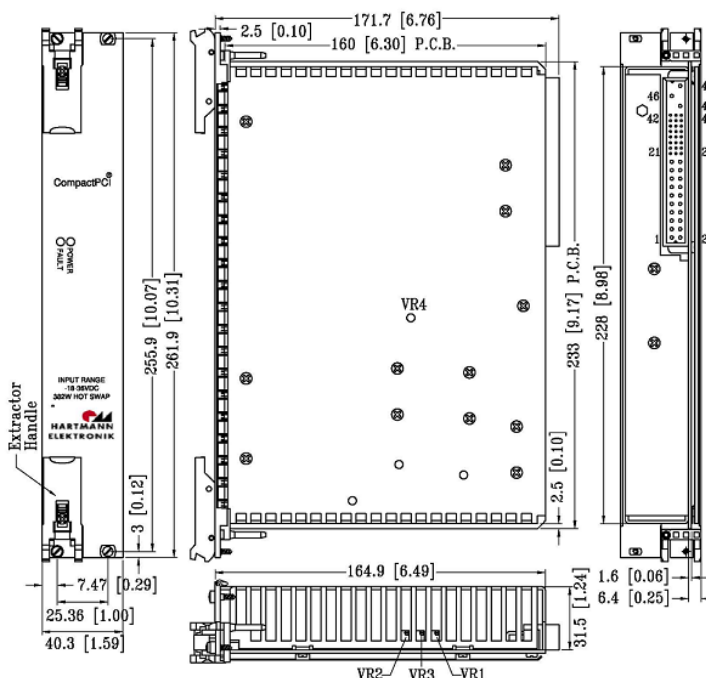
INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT:

	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

- “★” OVP built in,
- “@” Adjustable,
- “#” remote sensing,
- “≡” 3rd wire load sharing.
- “○” Installed with Or-ing diode
- “▲” Magnetic Amplifier

Mechanical Dimensions: mm (Inches)
Weight : 1.7kgs (3.75 lb)



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For details of safety approval, please consult the factory