POWER SUPPLY		kontron The Power of IoT
6U 8HP 500W P47	AC/DC	

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.

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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 & Riple:	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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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: Peal 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.

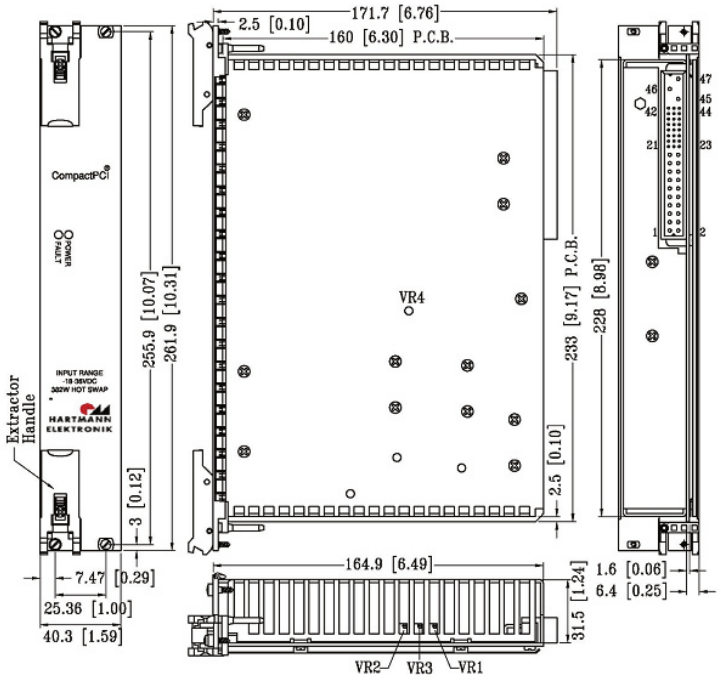
INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT:

	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.
"o" 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