



VPX Power supply unit



Preliminary Data sheet

Key features:

- 6U/10HP VPX Power supply unit, VITA 62 compliant
- Wide operating temperature range of -40°C to +85 °C
- Internal OR-ing diode for N+1Redundancy
- Active current sharing
- Emission (conducted) EN 55032/ class A
- Meet IEC61000-3-2 Harmonic correction
- Safety standard IEC 60950-1
- PMBus interface for status & control
- Coated according to MIL-I-460580

Part No: D575.01020



General Specification:

- Operating temperature: -40 °C to +85 °C with specified airflow but derates linearly after +55°C
- Storage temperature: -40 °C to +90 °C,
- Cooling: min 800 LFM moving air required to achieve full power in confined area
- Circuit Topology: ZVS Half-Bridge circuit
- LED indication for: Power OK signal, DC OK signal
- Construction: Eurocard 6U 10HP 160mm; VPX format, Front Panel with Extractor handle
- Vibration: Six degree-of-freedom Random 10Hz-150Hz, 5G
- PM Bus: Built In.

Input Specification

- Input voltages: Typ. 100-264V ac.
- Input frequency: 47-63Hz.
- Input connector: Tyco 6450843-6.



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Output specification

- Output Power: 850 Watt at 230VAC /620 Watt at 115VAC
- Output connector: Tyco 6450849-6.
- Line regulation: Typ. 0.5%
- Load regulation: VO1/2/3 typ± 2%, VO4/5 typ± 5%.
- Noise & Ripple: Typ.1.5% peak-peak.
- Adjustability: Available for VO1/2/3
- Current sharing: Active current sharing at VO1, 2 & 3.
- Remote ON/OFF: Available.
- Power fail signal: Available
- Over Voltage (OVP): Built in at all output
- Over current (OCP): Built in
- Thermal protection (OTP): Installed NTC and thermostat
- Overload protection (OLP): Typ. 110-150% max load (consult factory for special OLP setting)

Output voltage/current rating chart

PENTAD OUTPUT

Model Nr.	Voltage	Voltage	Minimum	Typ
D575.01020	Vo1	+12V DC	0A/1.0A	30A/38A
	Vo2	+5V DC	0A/1.0A	40A/60A
	Vo3	+3.3V DC	0A/1.0A	12A/20A
	Vo4	+12V DC	0A/0.1A	1A/1.5A
	Vo5	-12V DC	0A/0.1A	1A/1.5A

Remark: 1. For 10HP version, the Max. Output power is <=620W at 100-180Vac and 850 Watt at 180-264Vac.

2. Minimum load is only required when PSUs do run in parallel

PIN ASSIGNMENTS:

P0			P1																		
P0-P7	P0-P4	P0-P1	P1	P2	D1	D2	P3	P4	P5	P6	D3	D4	D5	D6	P7	P8	D7	D8	D9	P9	P10
L	N	G	COM	VO3 3.3V Aux.	PS_RNT	EN	COM	COM	VO2 P03 +5V	VO2 P03 +5V	N/A	A0	SDA	SYS RST	COM	COM	COM	DEG.	I/P_ok	VO1 P02 +12V	VO1 P01 +12V
					C1	C2					C3	C4	C5	C6			C7	C8	C9		
					V3 +S	INH					N/A	A1	SCL	VO5 -12V			V2 CS	V2 -S	V2 +S		
					B1	B2					B3	B4	B5	B6			B7	B8	B9		
					V3 -S	FAL					VO4 +12V	A2	SDA	N/A			N/A	N/A	N/A		
					A1	A2					A3	A4	A5	A6			A7	A8	A9		
					V3 CS	N/A					PSU_R NT	Alert	SCL	N/A			V1 CS	V1 -S	V1 +S		