

6U 10HP 1000 W

VPX AC/DC
Vita 62



Partnumber: D575.01000 / 1000 W

Features:

- 6U 10HP Eurocard package, VITA 62 compliant
- Wide operating temperature range from -40° C ... to +85° C
- Wide range input voltage from 90-264VAC
- Active current sharing
- Power Factor Correction (PFC)
- Meet IEC 61000-3-2 harmonic correction
- Internal or-ing diodes for N+1 redundancy
- EMI meet EN 55032 / FCC class A
- Fully compliant with PICMG / CE marking compliance
- PMBus interface for status & control
- Using 125° C long life solid capacitors
- Coated according to MIL-I-460580

General specification:

- Efficiency: Typ. 89% at 230VAC
- Switching frequency: 67-100KHz
- Dielectric withstand: Meet IEC60950-1 regulation
- Circuit topology: ZVS Half-Bridge circuit
- Transient response: Peak transient less than 600mV and recovers within 3ms after 25% load-change
- Remote ON/OFF: Available
- Power fail signal: Available
- DC OK Signal: Available
- N + 1 Redundancy: Internal OR-ing diodes
- Power density: 5.7-8.3 Watts/ Cubic Inch
- PMBus: Built-in
- Conformal coating: Available

- NOTE:**
- 1) All measurement are at nominal input, full load and +25°C unless otherwise specifications
 - 2) Tantalum capacitors connected to system is suggested for bettering Ripple & Noise against operating temperature from -40°C to +0°C
 - 3) A warm-up time 3 minutes is required after cold start at temperature from -40°C to +0°C
 - 4) Due to requests in market and advances in technology, specifications subject to change without notification
 - 5) 125°C OS-CON Long-life Solid capacitors are installed in secondary circuits



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ELECTRICAL SPECIFICATION

INPUT SPECIFICATION

Input Voltage:	Typ. 90-264VAC
Power Factor:	Power Factor Typ. 0.975 at 230VAC
Input Connector:	Tyco 6450843-6
Input Frequency:	47-63Hz
Inrush Current:	10Arms at 230VAC; 37.2A (peak) at 230VAC
Input Current:	7.3A at 115VAC / 5.2A at 230VAC
Earth Leakage Current:	Typ. 1.1mA at 230VAC
No-Load Power:	Typ. 21Watt at 115VAC / 230VAC

OUTPUT SPECIFICATION

Output Connector:	Tyco 6450843-6
Line Regulation:	Typ. 0.5%
Load Regulation:	V1/V2/V3 Typ. $\pm 1,5$; V4/V5 Typ. $\pm 5\%$
Total Regulation:	V1/V2/V3 Typ. ± 3 ; V4/V5 Typ. $\pm 5\%$
Noise & Ripple:	1.5% peak to peak
Remote Sense:	Available at V1/V2/V3
OVP:	Built-in at all outputs
Adjustability:	Available at V1/V2/V3
Current Sharing:	Active current sharing available at V1/V2/V3

PROTECTION

Over Voltage (OVP):	Built-in at all outputs
Over Current Protection (OCP):	Built-in
Over Load Protection (OLP):	Typ. 110-150% max. load fully protected against output
Over Temperature (OTP):	Installed NTC and thermostat
Hold-up Time:	Typ. 6.2-7.3mS at 115VAC / 2.3-2.8mS at 230VAC

ENVIRONMENTAL

Operating Temperature:	-40°C to +85°C with de-rating
Storage Temperature:	-45°C to +90°C
Cooling:	800LFM moving air
Humidity:	Operating: 5-90% (non-condensing) Storage: 0-95% (non-condensing)

SAFETY / EMC

Emissions (conducted):	EN55032 / FCC Class A
Harmonic Current:	IEC 61000-3-2
Safety Standard:	IEC 60950-1 Class I
CE Standard:	Meet Level 3 Criteria A
Vibration:	Six degree-of-freedom random, 10Hz-150Hz, 5G

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Input & output connectors PIN assignment

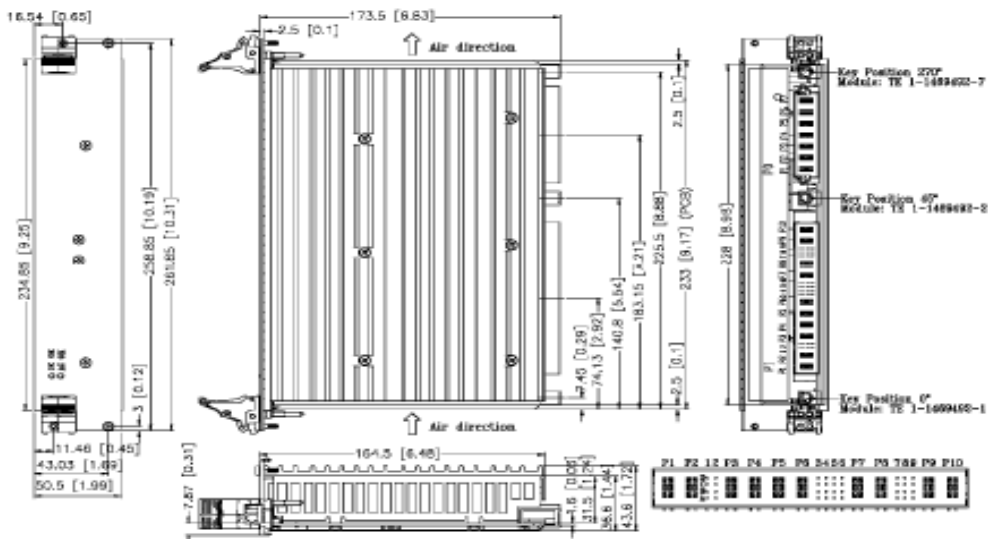
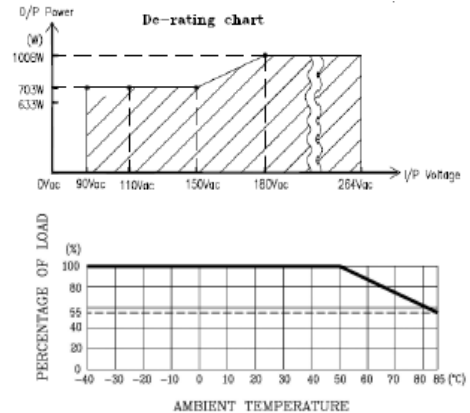
P0			P1																		
P0-P7	P0-P4	P0-P1	P1	P2	D1	D2	P3	P4	P5	P6	D3	D4	D5	D6	P7	P8	D7	D8	D9	P9	P10
L	N	G	COM	VO3 3.3V Aux.	PS_RNT	EN	COM	COM	VO2 P03 +5V	VO2 P03 +5V	N/A	A0	SDA	SYS RST	COM	COM	COM	DEG.	I/P_ok	VO1 P02 +12V	VO1 P01 +12V
					C1	C2					C3	C4	C5	C6			C7	C8	C9		
					V3 +S	INH					N/A	A1	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_ RNT	Alert	SCL	N/A			V1 CS	V1 -S	V1 +S		

Output Voltage / Current Ratings Chart

Art. Nr.:	O/P Volt.	Volt.	Min.	Typ.	Max.	Peak.
D575.01000	VO1	+12V	0.5A	44A / 63A	70A	75A
	VO2	+5V	0.5A	21A / 30A	30A	30A
	VO3	+3,3V	1.0A	14A / 20A	20A	20A
	VO4	+12V	0.1A	1A / 1.5A	2A	2A
	VO5	-12V	0.1A	1A / 1.5A	2A	2A

Max. output power ≤703W at 90-180VAC; 1008W at 180-264VAC
For parallel application, a certain minimum current of outputs is required
Minimum load is strongly required when PSU do run

Derating chart



Mechanical dimensions: mm (inches) / Weight: 2,2 kg

For the details of safety approval, please consult the factory

Edited on 19. October 2020