



3U/AC Power Supply 600W

- 3U / 10HP VPX form factor with integrated low-noise fan for reliable air cooling
- High efficiency up to 89% and full output power (600 W) even at 120 V AC input
- Wide AC input range of 85–264 V at 47–63 Hz with 20 A max inrush current
- 6 regulated DC outputs: 12 V/28 A, 5 V/25 A, 3.3 V/19 A, ± 12 V AUX, 3.3 V AUX
- Reinforced isolation: 4000 V AC (Input–Output), 1500 V AC (Input–Chassis), 250 V DC (Output–Chassis/Output)
- Parallel operation supported for redundancy via Hartmann power backplanes

Technical Information

Form Factor	3U
Pitch	10HP
Weight	650g
Storage Temperature	-40°C to +85°C
Operating Temperature	-20°C to + 70°C
Input to Output Insulation	4000VAC
Input Voltage	85-264Vac
Input Current	6A (600W output at 120 Vac input)
Inrush Current	20A (at 265Vac)
Maximum Output Power 85-264Vac	600 W
Max. CurrenTs 3.3V /12V / 5V	19A /28A /25A
Over Current Protection % of rated current	105% - 125%
Ripple and Noise (20MHz BW, pk-pk	1% Vnom
Holdup Time 600W output at120Vrms input	Min 17ms, typ20ms, max21
Turn ON Rise Time 3.3V/12V/5V	1,5-3,5ms
Turn ON Delayy (AC to PG)3.3V/12V/5V	750ms
Line Regulation: 3.3V/12V/5V	±1%Vnom/±1%Vnom/±1%Vnom
Load Regulation 3.3V/12V/5V	±50mV/±100 mV/±50mV
Overvoltage Protection: 3.3V/12V/5V	9,5V/18V/9,5V
Over Temperature Protection (internal monitored.)	+115°C – 125 °C (Latching)
Efficiency	86% - 89%
Auxiliary ±12VAUX/3V3AUX Power	
Input +12V /3.3V	
Maximum Current ±12VAUX / 3V3AUX	1A/6A
Current Protection(Fuse) ±12VAUX /3V3AUX	1,5A/6A
Connector	
Vita 62, Tyco 6450849-7	

P0 Connector Pin Out

PART NUMBER	ROWS	POWER			SIGNAL								POWER					
		P1	P2	LP1	1	2	3	4	5	6	7	8	P3	P4	P5	LP2	P6	
6450849-7	D	TT	TT	LT	Z5	Z5	Z5	Z5	Z5	Z5	Z5	Z5	TT	TT	TT	LT	TT	
	C				Y5	Y5	Y5	Y5	Y5	Y5	Y5	Y5						
	B				R5	R5	R5	R5	R5	R5	R5	R5						
	A				O5	O5	O5	O5	O5	O5	O5	O1						
2ACP+1LP+32S+3HDP+1LP+1HDP																		

Pin Number	Voltage	Current	Assignment
P6	+12V	28A	VS1
LP2	+3,3V	6A	VS2
P4, P5	Return of all output		PWR_RET
P3	+5V	25A	VS3
D8	GND_SENSE		SENSE_RET
C8	+5V_SENSE		VS3_SENSE
B8	+3,3V_SENSE		VS2_SENSE
A8	+12V_SENSE		VS1_SENSE
D7			SIG_RET
C7	+5V_SHARE		VS3_SHARE
B7	+3,3V_SHARE		VS2_SHARE
A7	+12V_SHARE		VS1_SHARE
D6			SYS_RESET /ACOK
C6	-12V AUX	1A	
B6	n/a		SM3
A6	n/a		SM2
D5	n/a		SM1
C5	n/a		SM0
B5	n/a		GA1
A5	n/a		GA0
D4	+3,3V AUX	6A	
C4	+3,3V AUX		
B4	+3,3V AUX		
A4	+3,3V AUX		
D3	n/a		NED_RET
C3	n/a		NED
B3	+12V AUX	1A	
A3	n/a		UD0
D2			ENABLE
C2			INHIBIT
B2	PG		FAIL
A2	n/a		VBAT
D1	n/a		UD4
C1	n/a		UD3
B1	n/a		UD2
A1	n/a		UD1
LP1			CHA_GND
P2	85 – 264Vac	6A max.	Line
P1			Neutral

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