2 Power Supply 3U 10HP 600W, AC/DC, air cooled

2.1 Key Features

- Form factor: 3 U/10HP
- Efficiency: up to 89%
- Input Frequency: 47-63Hz
- Input Voltage: 85 – 264Vac
- Input Current: 6A (600W output at 120Vrms input)
- Inrush Current: 20A (at 265Vrms)
- Output Voltage: 12V/28A: VS1
  3.3V/19A: VS2
  5V/25A: VS3
  ±12VAUX/1A
  3V3AUX/6A
- Isolation Voltage: Input to Output:4000Vac
  Input to Chassis: 1500Vac
  Output to Chassis 250Vdc
  Output to Output 250Vdc
- Cooling with low noise Fan installed
- Used in parallel mode with Hartman PSUs and Power-Backplanes

Order Number: D575.00643

2.2 LED Status:

AC OK	PSU is in Standby
ENABLE	EN is activated, PSU running

2.2.1 Technical Specification

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	
Input Voltage	85 – 264Vac
Input Current:	6A (600W output at 120Vac input)
Inrush Current:	20A (at 265Vac)
Output	
Maximum Output Power (85 – 264Vac)	600W
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, typ 20ms, max 21
Turn ON Rise Time 3.3V / 12V / 5V	1,5-3,5ms
Turn ON Delay (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	±50 mV / ±100 mV / ±50 mV
Overvoltage Protection: 3.3V / 12V / 5V /	9,5V / 18V / 9,5V
Over Temperature Protection (internal monitored.)	+115C° - 125°C (Latching)
Efficiency	86% - 89%
Auxiliary ±12VAUX / 3V3AUX Power	
Input +12V / 3,3V	
Maximum Current ±12VAUX / 3V3AUX	1 A / 6A
Current Protection (Fuse) ±12VAUX / 3V3AUX	1,5A / 6A
Connector	
Vita 62, Tyco 6450849-7	

2.2.2 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				05	05	05	05	05	05	05	01					
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