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Find the *Pickering cPWR-59102-EJ* at our website: ***Click HERE***



3U cPCI Hot Swap Power Supply
Model cPWR-59100 Series
175W/180W

The cPWR-59100 series features models of hot swappable, front access power supplies for 3U CompactPCI platform. It utilizes switching technology and high power density design as well to achieve its small size and large power output. Optionally, two or more power supplies can be used to implement current sharing, N+1 redundancy, and fault-tolerance systems.

ORDERING INFORMATION

cPWR-59102 : 3U cPCI Power Supply, AC 110/220V input, 175W
cPWR-59104 : 3U cPCI Power Supply, DC 24V input, 175W
cPWR-59105 : 3U cPCI Power Supply, AC 110/220V input, 180W

KEY FEATURES

- Eurorack-compatible module design
- Input: 100V ~ 240Vac, 18V ~ 36Vdc
- Hot-swappable
- N+1 redundant
- Remote sense on main output (+5V, +3.3V)
- Efficiency 73%
- Build-in EMI protection
- EMI Meets EN55022/FCC Class A
- Overvoltage protection
- Short circuit protection on all outputs
- Over temperature output
- Compliant with PICMG 2.11 (47-pin)
- Status LEDs indicate power OK or fault
- Current sharing on main output (+5V and +3.3V)
- Worldwide Safety Approval including UL, CSA, CE Marking

SPECIFICATIONS

Model	59102	59104	59105
Power Capacity	175W	175W	180W
Input Range			
Voltage	100 ~ 240 Vac	18 ~ 36 Vdc	100 ~ 240 Vac
Frequency	50 ~ 60 Hz	--	50 ~ 60 Hz
Max. Inrush Current	20A (110Vac)	20A	20A (110Vac)
P.F.C.	20.97	--	20.97
Protections	Over Voltage, Low Voltage, Surge		
Output Range			
Efficiency	73% (typical)		74% (typical)
Voltage	V1(+5V) / V2(+3.3V) / V3(+12V) / V4(-12V)		
Max. Current	25A/25A/3A/1A		25A/25A/5A/1A
Hold-up Time	20 ms	5 ms	15 ms
Voltage Regulation	±1% (V1, V2), ±3% (V3, V4)		
Line Regulation	±0.3%		
Current Sharing	±5%		
Noise and Ripple	1% peak-peak or 50mV whichever is greater		
Over Load Capacity	≤120% continuous and Shutdown when over current occur		
Transient Response	Peak transient less than 200mV and returns to within 1% less than 300 μS following 25% load change (V1, V2, V3)		
Remote Sense	Total voltage compensation for cable losses with 150mV respect to output.		
Voltage Drop	<5% @ Hot-swap (V1, V2, V3), Load > 20%		
Protections	Over Voltage(V1, V2), Low Voltage, Over Current, Over Temperature, Hot-swap, Short		
Minimum Load	V1 (2A), V2 (1A)		--
I/O Interface			
Display and Status	Normal Indication (Green LED) / Fault Indication (Red LED)		
Power Connector	47 pins: Positronic PC147M400A1 or PCIH47M400A1		
Safety and EMS			
Safety	UL 1950 / cUL 1950 / EN 60950		
EMI	EN 55022 ClassA EN55024: 1998 IEC 61000-4-2: 1995 ESP IEC 61000-4-3: 1995 RS		
EMS	IEC 61000-4-4: 1995 EFT/B IEC 61000-4-5: 1995 Surge IEC 61000-4-6: 1995 1996 CS IEC 61000-4-8: 1993 Power Frequency Magnetic Field IEC 61000-4-11: 1994 Volge and Interruption Measurement		
CE Mark	Yes		
Others			
Operating Temperature	0°C ~ 40°C (Full-load)		
Storage Temperature	-40°C ~ 85°C		
Operating Humidity	0 ~ 95% (non-condensing)		
Cooling	At least 12 C.F.M. air flow is required		
Audible Noise	< 40 dBA		
Dimensions	H (3U) x W (8HP) x D (172.8 mm)		
Weight	0.85 Kg		

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