

cPCI500 Series

500W 6Ux4HP DC/DC CompactPCI™ Power Supply

SELECTION GUIDE								
Model Number	Power	Output Current			IPMI	lsh1	ROHS	
woder Number		5V	3.3V	12V	-12V	IFIVII	19111	COMPLIANT 2002/95/EC
CPCI500D-1	500W	55A	Υ	11A	1.7A	N	Р	No
CPCI500D-2	500W	30A	N	11A	1.7A	N	Р	No
-CPCI500D-3	500W	30A	N	11A	1.7A	Y	A	No
-CPCI500D-4	500W	55A	Y	11A	1.7A	Y	A	No
-CPCI500D-5	500W	55A	N	11A	1.7A	N	A	No
CPCI500D-6	500W	30A	N	11A	1.7A	N	A	No
CPCI500D-1C	500W	55A	Υ	11A	1.7A	N	Р	Yes
CPCI500D-2C	500W	30A	N	11A	1.7A	N	Р	Yes
-CPCI500D-3C	500W	30A	N	11A	1.7A	Y	A	Yes
-CPCI500D-4C	500W	55A	Y	11A	1.7A	Y	A	Yes
-CPCI500D-5C	500W	55A	N	11A	1.7A	N	A	Yes
CPCI500D-6C	500W	30A	N	11A	1.7A	N	A	Yes

INPUT CHARACTERISTICS						
Parameter	Conditions	Min	Тур	Max	Units	
Input Operating Voltage		36		72	Vdc	
Input Voltage Withstand		34		75	Vdc	
Inrush Current	36Vdc input			25	Apk	
iniusii curtent	72Vdc input			50	Apk	

Outout	Name in all Vallana	Output Current			T	
Output	Nominal Voltage	Min	Max A	Max B	Total Regulation ¹	
V1	+5.0Vdc	0A	55A	30A	±1%	
V2	+3.3Vdc	0A	30A 60A		±1%	
V3	+12Vdc	0A	11A	11A	±1%	
V4	-12Vdc	0A	1.7A	1.7A	±3%	
Parameter	Conditions	Min	Тур	Max	Units	
Temperature Coefficient				0.02	%/°C	
PARD (V1 & V2)	20MHz bandwidth			50	mV _{p-p}	
PARD (V3 & V4)	20MHz bandwidth		120	180	mV _{p-p}	
Output Power	50°C, 400lfm airflow	0		500	W	
Output Power	70°C, 400lfm airflow	0		250	W	
Town six at Down and	ΔV, 50% load step			±8	%Vnom	
Transient Response	Settling time			200	μsec	
Over-Voltage Protection	All outputs		125	135	%Vnom	
Minimum Load		0			А	
Output Holdup Tim Full load, low line		12		16	msec	
Remote Sense Compensation V1, V2 & V3		300	ĺ	ĺ	mV	
Current Share Tolerance	V1-V3; full load			±10	%	
	Pri-Sec	4			kVac	
Isolation	Pri-Chassis	1.5			kVac	
	Sec-Chassis	500		İ	Vac	

1 Total regulation includes line, load, and cross regulation.

FEATURES

- 6Ux4HP package
- 500W power at 0-50°C
- PICMG 2.11 compliant
- RoHS compliant
- Widerange 36-72Vdc input range
- IPMI option
- Active or passive current sharing
- 47-pin I/O Connector
- 80% efficiency
- No minimum load
- Hot-swap capable

DESCRIPTION

The cPCl500 is a high-reliability, 500W, 6ux4HP CompactPCI™ power supply operating from widerange DC-input. The use of our patented V-Series topology yields high efficiency which consequently permits packaging of this product in a compact, single card slot format (4HP).

ORing diodes and current sharing allow the cPCl500 to be operated in N+n parallel-redundant configurations. Available with an IPMI interface option, the cPCI500 was designed for hot-swap, redundant configurations to support high-availability (HA) telecom applications.

With a widerange input of 36-72Vdc, safety agency approvals to UL60950 and EN60950, EMI compliance to ETSI and Telcordia standards, the cPCl500 was designed with globally-deployed systems in mind. Additional features include remote sense compensation, unit enable control (EN#), output inhibit control (INH#), output fault signal (FAL#), and thermal warning signal (DEG#). LEDs are provided for visual indication of input power presence and output fault condition.

The 4HP package and complement of global safety agency approvals provide for an advanced. high-density, high-efficiency power solution for your CompactPCI requirements.





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cPCI500 Series500W 6Ux4HP DC/DC CompactPCI™ Power Supply

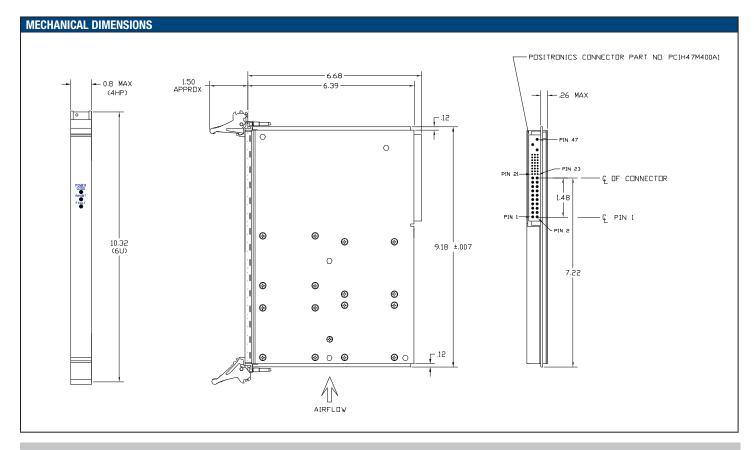
Parameter	Conditions			Min	Tun	Max	Units
					Тур	IVIAX	
Efficiency	48Vdc input, 500W load (dependent upon load profile)				65		%
Switching Frequency	Calculated per MII. LIDBY 21.75 2500 ground haping			0.4	72		kHz
MTBF	Calculated per MIL-HDBK-217F, 25°C, ground benign			84	0.0		khrs
Weight	Unpackaged				3.6		kg
PROTECTION							
Parameter	Conditions/Response	onditions/Response			Inception		
					Тур	Max	Units
Thermal Shutdown		n restoration to operational temperatures			90		°C
Output Power Limit	Automatic recovery				530		W
nput Protection	Internal line fuse, Littlefus	e BLN 25P ROHS or equivalent		_		25	Α
Over-voltage Protection	Output V1, latching		6.0		6.5	7.0	Vdc
	Output V2, latching		3.9		4.3	4.7	Vdc
Parameter	Conditions/Response		,				
Output Overload Protection	Outputs are individually p	rotected against overloads and indefinite short circuit with automatic recovery	upon remov	al of tl	he fault	condition	١.
Hot-Swap Capability	Design Verification Testing (DVT) confirms that voltage excursions on the output buses resulting from insertion/extraction events do not exceed the specified maximum of 5%. However, routing of power and signal lines in the mating backplane is critical to minimization of such excursions. In addition, performance can be critically affected by load characteristics including resistance, negative resistance, and reactive components. While the control loop responses have been designed for optimum hot-swap performance over a wide range of characteristics, there may be instances where the voltage excursions exceed published specifications. In such cases, the control loop responses can be modified to perform optimally.						
output Fault Isolation	Output isolation devices a	re present in all outputs to isolate faults within a failed power supply.					
TATUS & CONTROL SIGNALS	& INDICATORS						
lame	Description						
lot-Swap Enable	Short pin on connector will enable the outputs when the mating pin is tied to DC GRD. Supply will not power up until this pin is engaged to its mate in the backplane. Unit output will be inhibited as pin is disengaged from the mating connector.						
Output Inhibit	Secondary referenced; active low, TTL compatible. Logic "0" or short circuit to Logic RTN (pin 40 or 43) inhibits all outputs.						
OC Good	Secondary referenced. Open collector signal with an internal 2.2k pull-up resistor is connected to the +5V output. TTL signal will transition high when all outputs are between 90% and 110% of their nominal voltage.						
	Connection of the sense leads across the load at the desired point of regulation will compensate for voltage distribution drops up to 700mV between the output terminals of the power supply and the point of connection. The unit reverts to local sensing if the sense lines are opened for any reason. The output is protected against shorted or open leads. Applies to all outputs.						on mgn
Remote Sense	between the output term	inals of the power supply and the point of connection. The unit reverts to local					ıV
	between the output term any reason. The output i	inals of the power supply and the point of connection. The unit reverts to local	I sensing if t				ıV
an Alarm	between the output term any reason. The output i Secondary referenced; T	inals of the power supply and the point of connection. The unit reverts to local sprotected against shorted or open leads. Applies to all outputs.	I sensing if t				ıV
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500W 6Ux4HP DC/DC CompactPCI™ Power Supply

CERTIFICATIONS	
Agency/Characteristic	Standard
UL	UL1950
CSA	CSA950 (per cUL)
VDE	EN60950
CE	LVD Directive; self-certified
RoHS	EN Directive 2002/95/EC; self-certified; see Selection Guide table for specific model compliance
SELV	Self-certified
Vibration	MIL-STD-810F, Method 514.5, Procedure I; self-certified
Shock	MIL-STD-810F, Method 516.5, Procedure I; self-certified
ELECTROMAGNETIC COMPATABILITY (EMC)	
Conducted Emissions	EN 300 386, NEBS GR-1089
Electrostatic Discharge (ESD)	EN61000-4-2, Level 3, Criteria B
Radiated Immunity	EN61000-4-3, Level 3, Criteria A
Conducted Immunity	EN61000-4-4, Level 3, Criteria A
Line Voltage Surge	EN61000-4-5, Class 3, Criteria B



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PACKAGE SPECIFICATIONS

CONNECTOR						
Pin #1	Staging ² Signal Name		Description			
1-4	M	V1	V1 Output			
5-12	М	RTN	V1 and V2 Return			
13-18	M	V2	V2 Output			
19	M	RTN	V3 Return			
20	M	V3	V3 Output			
21	М	V4	V4 Output			
22	М	RTN	Signal Return			
23	М	RESERVED	Reserved			
24	M	RTN	V4 Return			
25	М	GA0	Geographic Address Bit 0			
26	M	RESERVED	Reserved			
27	S	EN#	Enable			
28	М	GA1	Geographic Address Bit 1			
29	M	V1ADJ	V1 Adjust			
30	M	V1 SENSE	V1 Remote Sense			
31	М	GA2	Geographic Address Bit ²			
32	M	V2ADJ	V2 Adjust			
33	M	V2 SENSE	V2 Remote Sense			
34	M	S RTN	Sense Return			
35	М	V1 SHARE	V1 Current Share			
36	M	V3 SENSE	V3 Remote Sense			
37	M	IPMB SCL	IPMB Serial Clock Line			
38	М	DEG#	Degrade Signal			
39	M	INH#	Inhibit			
40	M	IPMB SDA	IPMB Serial Data Line			
41	M	V2 SHARE	V2 Current Share			
42	М	FAL#	Fail Signal			
43	М	IPMB PWR	IPMB Power Input			
44	М	V3 SHARE	V3 Current Share			
45	L	CGND	Chassis Grnd (Safety Grnd)			
46	M	ACN/+DC IN	AC Input Neutral/+DC Input			
47	М	ACL/-DC IN	AC Input Line/-DC Input			

IPMI/IPMB POWER SUPPLY SATELLITE CONTROLLER FEATURES

- Complies with IPMI V1.5 Rev 1.1 and IPMB V1.0
- Complies to PICMG2.9 (CompactPCI Systems Management Specification)
- 8 Analog inputs configured for monitoring voltages and currents on power supply outputs V1 - V4
- Monitors the state of the thermal sensor
- Output inhibit control can be overwritten by IPMI commands
- Self Test with LED indicator (can be read and overwritten by IPMI commands)
- . 6 programmable thresholds on each analog sensor
- Each threshold on each sensor can be enabled to generate event messages if that threshold is crossed
- Thermal sensor can be enabled to generate event messages
- Responds to all mandatory IPMI commands and numerous optional commands as indicated in the functional specification
- Firmware can be upgraded via the IPMB bus
- Includes Device SDR's (Sensor Data Records) These specify the type of sensor for each input (voltage, current, temperature, etc.) as well as the conversion formulas from raw ADC data to voltages, currents, etc.
- Includes FRU type information such as Model Number, serial number and firmware creation date

MECHANICAL			
Shock: MIL-STD-810d, Method 516.3, Procedure 1.			
Vibration: MIL-STD-810d, Method 514.3, Procedure 1.			
Dimensions: 6U x 4HP x 160mm (see Mechanical above)			
EMC & SAFETY			
EMI: NEBS Compliant, ETSI Compliant			
Safety Agency Ratings			
Input Voltage: 48 VDC			
Input Current: 15A			
Input Power: 620W			
Agency Approvals			
UL1950/CSA950, EN60950, CE Mark.			
(Low Voltage Directive)			

NOTES:

- (1) Pin numbers correspond to the female backplane connector.
- (2) L = Long Length Pin (First Make, Last Break); M = Medium Length Pins; S = Short Length Pins (Last Make, First Break)

SAFETY AGENCY RATINGS				
Input Voltage	36-72Vdc			
Input Current	25-12.5Adc			
Input Power	620W			

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Murata Power Solutions, Inc.

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