ADLINK
LEADING EDGE COMPUTING

Universal AC Input Harmonic Correction AC-DC Hot-Swap
6U CompactPCI 8HP 500W Power Supply

cPS-H650/AC

Datasheet



Features

- PICMG 2.11 CompactPCI power interface compliant
- 6U CompactPCI 8HP form factor
- 500W DC output
- Wide operating temperature -30°C to +50°C
- Active PFC (Power Factor Correction) meets IEC61000-3-2 Harmonic Correction
- N+1 redundancy, hot-swappable & active current sharing

Specifications

PICMG Standards	PICMG 2.11 CompactPCI 47-pin Power Interface compliant	
	Form Factor	6U x 8HP CompactPCI
	Input Voltage	100 to 240VAC +/- 10% Input Frequency: 50~60 +/-3Hz
	Input Current	5.6A@115Vac / 2.7A@230Vac Inrush Current: Less than 30Arms at 230VAC
	* Note: Support for hot swap function requires use of a backplane with redundancy. Please contact us for more information.	
General	Power Factor Correction	Typical 0.97-0.99 Meets Harmonic Correction IEC61000-3-2
	Power Failure Signal	Available at [FAL#] pin
	Status LEDs	Green: Valid input and output voltage Amber: Critical fault
	Output	Output voltage/current: 5 V: Typ. 50.0 A, Max. 60.0 A 3.3 V: Typ. 30.0 A, Max. 50.0 A +12 V: Typ. 10.0 A, Max. 14.0 A -12 V: Typ. 3.0 A, Max 4.0 A ** Max. load is the continuous operating load of each rail individually. The Max. load of each rail cannot be drawn from all outputs simultaneously. 5V & 3.3V total maximum power <350W
	Output Wattage	Max. 500W continuous Line Regulation: Typ. 0.1% Load Regulation: Typ.+/- 1-3%

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Specifications

General	Noise & Ripple	Typ. 1% peak to peak or 50mV, which is greater
	Hold-up Time	10ms at 115 & 230VAC
	Efficiency	Typ. 75% (min.)
	Output Voltage Remote Sensing	Available at Vo1, 2 and 3
	Current Sharing	Third-wire current sharing at VO1, 2 and 3
	Remote ON/OFF	Available at [INH#] & [EN#] pins
Protection	Over Voltage Protection (OVP)	Built-in (LATCH)
	Over Current Protection (OCP)	Constant current installed at each rail & over 5 to 10sec PSU shutdown +5V OCP 69 to 75A +3.3V OCP 58 to 75A +12V OCP 16 to 18A -12V OCP 5 to 7A
	Overload Protection (OLP)	Fully protected against output overload or short circuit. Typical 115% max. load.
	Thermal Protection (OTP)	Installed NTC and thermostat for thermal sensor at [DEG#] pin
Environmental	Operating Temperature	-30°C to 50°C at full load with specified air flow Derating output power to 50% at 70°C
	Storage Temperature	- 40°C to 85°C
	Cooling	At least 800 LFM moving air is required to achieve full rating power 500W in a confined area.
	Operating Humidity	20% to 90% non-condensing
	Vibration	Six degree-of-freedom random, 5 Grms.
Safety / EMC	Certifications	IEC 62368-1:2020, IEC61000-3-2; Design meet EN55032 /FCC Class A

Ordering Information

cPS-H650/AC	Universal AC Input Harmonic Correction AC-DC Hot-Swap 6U CompactPCI 8HP 500W Power Supply

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