ADLINK
LEADING EDGE COMPUTING

Universal AC Input Harmonic Correction AC-DC Hot-Swap
3U CompactPCI Serial 8HP 300W Power Supply

cPS-H300S/AC

Datasheet

Preliminary



Features

- CompactPCI Serial PICMG CPCI-S.0 power interface compliant
- Wide operating temperature -40°C to +70°C
- Active PFC (Power Factor Correction) meets IEC61000-3-2 Harmonic Correction
- N+1 redundancy, hot-swappable & active current sharing
- PMBus communication

Specifications

PICMG Standards		CompactPCI Serial PICMG CPCI-S.0
		Form Factor: 3U x 8HP CompactPCI Serial Input Voltage: 100~240VAC +/- 10% Input Frequency: 50~60 +/-3Hz Input Current: 3.85A@115Vac / 1.65A@230Vac Inrush Current: peak 20A 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	Min >0.95 Meets Harmonic Correction IEC61000-3-2 @230Vac 50Hz Full Load
	Power Failure Signal	Available at [FAL#] pin
	Status LEDs	Valid input voltage Critical fault DC OK
	Output	Output voltage: Vo1: +12V, Standby: Vo2: +5V Output current (max.): Vo1: 25A, Standby: Vo2: 2.5A Minimum load require: Vo2 shall have 0.4A minimum load when Vo1 greater than 15A
	Output Wattage	Max. 312.5W continuous Line Regulation: +5/- 3% max. Load Regulation: +5/- 3% max. Total Tolerance: +5/- 3% max.

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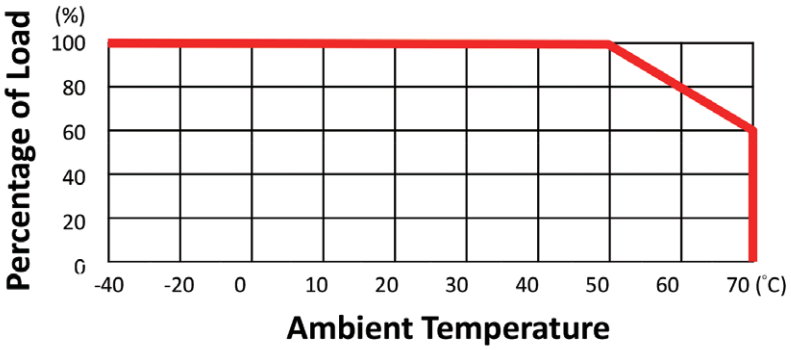
Specifications

	Noise & Ripple	- Less than 50mv on Standby power - Less than 100mv on 12V power Note : Ripple & noise are measured with 0.1 uf of ceramic capacitance & 10uf Tantalum capacitance on each of the outputs
	Hold-up Time	15ms at 115 & 230VAC and full load conditions
	Efficiency	Minimum 90% at 230VAC 50Hz and full load in sentence
	Output Voltage Remote Sensing	Available at Vo1
	Current Sharing	Active current sharing at Vo1
	Remote ON/OFF	Available
Protection	Over Voltage Protection (OVP): Built-in (LATCH) Over Current Protection (OCP): Installed (Auto Recovery) Overload Protection (OLP): Typical 120%-130% peak current at 115Vac. Fully protected against output overload or short circuit (Auto Recovery) Thermal Protection (OTP): Installed NTC for thermal sensor at [DEG#] pin Short Circuit Protection(SCP): The unit will withstand a continuous short without damage	
Environmental	Operating Temperature	-40°C to 70°C with 200 LFM air Derating output power to 60% at 70°C (Please refer to the derating chart for the derating output power limit.)
	Storage Temperature	- 40°C to 85°C
	Operating Humidity	5% to 90% non-condensing
	Vibration	Six degree-of-freedom random (10Hz - 2000Hz)
Safety / EMC	Certifications	IEC 62368-1:2018, UL 62368-1 3rd Ed, CE DoC; Design meet FCC Class B

Ordering Information

cPS-H300/AC	Universal AC Input Harmonic Correction AC-DC Hot-Swap 3U CompactPCI Serial 8HP 300W Power Supply

Derating Chart



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