

Universal AC input harmonic correction AC-DC hot-swappable CompactPCI Serial Dual output (with 5V standby) 312 Watts active current sharing switching power supplies HAC300S-D120E



Features

- 3U x 8HP CompactPCI Serial
- Wide operating temperature -40°C to +70°C
- IEC61000-3-2 harmonic correction
- N+1 redundancy, hot-swappable & active current sharing
- 80 plus gold efficiency
- PMBus communication
- Fully compliant with PICMG

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Specification

Input		General				
Input Voltage	Typical 90-264VAC	Efficiency	Typical 90% at 230VAC			
Input Frequency	47-63Hz	Switching Frequency	85-100KHz			
Input Current	Typical 3A at 115VAC	Dielectric Withstand	IEC60950-1 regulation			
	Typical 1.5A at 230VAC	Transient Response	Peak transient less than 134mV			
Inrush Current	5.3Arms at 230VAC		and recovers within 0.5mS after			
Power Factor	Typical 0.98-0.99		25% load-change			
Input Connector	FCI 51939-667LF	Remote ON/OFF	Available			
Earth Leakage Current	Less than 0.7mA at 230VAC	Power Fail Signal	Available at [FAL#] pin			
Output		DC OK	Available for V1 & +5Vsb(V2)			
Output Connector	FCI 51939-667LF	Status LED	<green> means valid input voltage</green>			
Line Regulation	Typical 1%		<red> means a critical fault</red>			
Load Regulation	V1 typical ±1%, V2 typical ±5%		<green> means DC OK</green>			
Total Regulation	V1 typical ±2%, V2 typical ±5%	N+1 Redundancy	Internal OR-ing diodes			
Noise & Ripple	Typical 1% peak to peak	Hot-Swappable	Available			
Remote Sense	Available for V1	Power Density	5.7 Watts/Cubic Inch			
Adjustability	pility Available for V1 PMBus		Available			
Hold-up Time	18mS at 115 & 230VAC	Environmental				
Current Sharing	Active current sharing at V1	Operating Temperature	-40°C to +70°C derate linearly			
Protection		(see note 3)	from 100% power at +50°C to			
Over Voltage	Built-in	(Refer to derating curve)	60% power at +70°C			
Over Current	Installed	Storage Temperature	-45°C to +85°C			
Over Load	Typical 120-130% peak current at	Cooling	200 LFM moving air			
	115VAC	Safety/EMC				
Over Temperature	Installed NTC and thermostat for	Emissions (conducted)	EN55032, FCC Class B			
	thermal sensor at [DEG#] pin	Harmonic Current	IEC61000-3-2			
		Safety Standard	IEC60950-1 Class I			

Notes

⁽¹⁾All measurement are at nominal input, full load and +25℃ unless otherwise specifications.

⁽²⁾Due to requests in market and advances in technology, specifications subject to change without notification.

⁽³⁾A warm-up time 10 minutes is required after cold start at temperature from -40 $^{\circ}$ C to +0 $^{\circ}$ C.

⁽⁴⁾Tantalum capacitors connected to system is suggested for bettering Ripple & Noise against operating temperature from -40°C to +0°C.

^{(5)125°}C OS-CON Long-life Solid capacitors are installed in secondary circuits.

Output voltage & current rating chart

Dual output

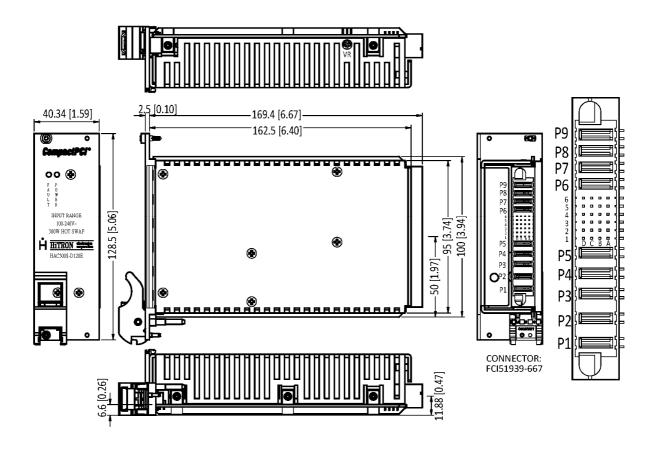
	Model No.	V1★ @≡⊙					STANDBY V2★⊙					
	Wodel Wo.	Min.	Тур.	Volt.	Max.	Peak	Min.	Тур.	Volt.	Max	Peak	
	HAC300S-D120E	0A	25A	12V	25A	28A	0A	2.5A	5V	2.5A	3A	

Symbol: "★" OVP built-in. "@" Adjustable. "#" Remote sensing. "≡" Active Load Sharing. "⊙" Installed with Or-ing diode.

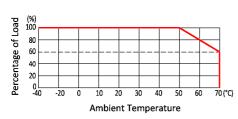
Notes: (1)Peak load less than 60sec. with duty cycle <10%.

- (2) Maximum load is the continuous operating load of each rail, but the maximum load of each rail can't be drawn from all outputs at the same time.
- (3)Please consult the factory if you have the special min load request of V1.

Mechanical Dimensions (All dimensions are in mm[inch])



Derating Chart



Pin Assignment

P1	P2	Р3	P4	P5	D1	D2	D3	D4	D5	D6	Р6	P7	Р8	Р9
		G	G N/A	N/A N/A	N/A	FAL	PS_P	сом	DEG	5Vsb	СОМ	сом	V1	V1
					C1	C2	С3	C4	C5	C6				
	N				N/A	N/A	СОМ	A0	ALERT	5Vsb				
L					B1	B2	В3	В4	B5	В6				
					N/A	12VCS	PSON	A1	SCL	СОМ				
					A1	A2	А3	A4	A5	A6				
						N/A	-VS	+VS	2	SDA	EN			

Notes: The mating connector is FCI 51940-350LF.

Weight: 710.0 g (25.1 Oz.)