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TECHNOLOGY GROUP

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Artisan Technology Group
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CompactPCI: 300 Watt Power Supply

This series of power supplies is available in AC-DC and DC-DC variants and is designed for use in pluggable redundant or hot swap systems.

With complex power capability, supervisory and control these high power density products provide an ideal solution to the power requirements of CompactPCI based embedded systems.

Features

- Universal Power Factor Correction input
- Wide input range from 40 to 72VDC available optionally
- Hot swap N+1 redundant
- Overvoltage protection
- Overcurrent and Overtemperature protection with auto reset
- LED status and fault indication
- VDE/CISPR class B filter
- Derating pin
- Power limiting pin for use with 3U backplanes
- Programmable margining capability
- No minimum load required
- High MTBF; 250,000 hours at 25°C, BELLCORE STD.
- **24 MONTH WARRANTY**

Ordering information

Pluggable Power Supply

	PPS 300 x
Input Voltage	
AC:	**A**
DC:	**D**



PPS-300 plug-in power supply with active PFC

Specifications

Input:	AC: 90 to 265VAC, 47 to 63Hz		DC: 40 to 72VDC
Output:	300W max.	+5V	30A max.
		+3.3V	45A max.
		+12V	10A/15Apk
		-12A	1A
	+5V and +3.3V output limited to 150W combined.		
Power Factor:	0.99 at full load, nominal line @ 115VAC		
Inrush Current: 8A @ 115VAC line and 36A @ 220VAC cold start 80A for 1/2 cycle hot start under all conditions noted in the specification.			
Current Share:	Single wire load share +5V, +3.3V and +12V		
Input Protection:	AC:	Internal 10A line fuse provided	
	DC:	reverse polarity protection	
Input Transient Protection: IEC1000-4-5, Level 3 IEC10000-4-4 Level 2 and IEEE 587			
Efficiency:	AC: 70% typical		DC: 75% typical
Hold up time:	20mS. Min @ full load, low line. (AC only)		
LED Indicator:	bicolor (amber=fault/green=OK) power supply status		
AC Power Fail Warning: Output power TTL compatible signal normally high. Low signal prior to any output going out of regulation. 10mS after AC power main goes to 95% of rating			
Output Power Derating Signal: TTL compatible signal active just prior to power supply temperature exceeding thermal ratings			
Regulation:	Load: 0.5% with remote sense connected (5V & 3.3V) 2% for ±12V		
	Line:	0.1% over entire operating range	
	Cross:	1% within 1.0mS	
Minimum Load:	Not required		

Over Current Protection:	All outputs	
Over Voltage Protection:	All outputs. Power supply shuts down. Cycle AC to reset	
Remote Sense:	+5V and +3.3V	
Output Noise and Ripple:	PARD:100mV pk-pk	
Common Mode:	Less than 100mV when measure at 20MHz. bandwidth	
Enable Signal:	Drive low to turn power supply on	
Inhibit Signal:	Drive low to turn power supply off	
Cooling:	200lfm through the power supply	
Relative Humidity:	20% - 95% NC	
Temperature:	Operating:	0° - 50°C
	Non Operating:	-40° -+85°C
Temperature coefficient:	0.02%/C°	
Altitude:	Operating:	10,000 feet, 3000m
	Non Operating:	40,000 feet, 12000m
Shock & Vibration:	IEC68	
EMI (conducted):	VDE/CISPR22 class B	
Dielectric withstand:	Input to ground:	2200VDC
	Input to output:	4300VDC
Weight:	2.0Kg (4.5lbs)	
Size:	6U X 160mm X 8HP	
Safety Agency:	UL, cUL, TüV, CE	
Mating Connectors:	Dual DIN 41612 Style M 8+24 connectors	
MTBF:	250,000 hrs. @ 25°C, Bellcore STD.	

Note: All information subject to change without notice

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Artisan Technology Group is an independent supplier of quality pre-owned equipment

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