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**Contact us:** (888) 88-SOURCE | [sales@artisanng.com](mailto:sales@artisanng.com) | [www.artisanng.com](http://www.artisanng.com)

# 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

<b>Input:</b>	AC: 90 to 265VAC, 47 to 63Hz	DC: 40 to 72VDC
<b>Output:</b>	300W max.	+5V 30A max. +3.3V 45A max. +12V 10A/15A pk -12A 1A
	+5V and +3.3V output limited to 150W combined.	
<b>Power Factor:</b>	0.99 at full load, nominal line @ 115VAC	
<b>Inrush Current:</b>	8A @ 115VAC line and 36A @ 220VAC cold start 80A for 1/2 cycle hot start under all conditions noted in the specification.	
<b>Current Share:</b>	Single wire load share +5V, +3.3V and +12V	
<b>Input Protection:</b>	AC: Internal 10A line fuse provided	DC: reverse polarity protection
<b>Input Transient Protection:</b>	IEC1000-4-5, Level 3 IEC10000-4-4 Level 2 and IEEE 587	
<b>Efficiency:</b>	AC: 70% typical	DC: 75% typical
<b>Hold up time:</b>	20mS. Min @ full load, low line. (AC only)	
<b>LED Indicator:</b>	bicolor (amber=fault/green=OK) power supply status	
<b>AC Power Fail Warning:</b>	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	
<b>Output Power Derating Signal:</b>	TTL compatible signal active just prior to power supply temperature exceeding thermal ratings	
<b>Regulation:</b>	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
<b>Minimum Load:</b>	Not required	

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

Note: All information subject to change without notice



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