



**SERIES:** PSE-1200 | **DESCRIPTION:** AC-DC HOT-SWAP POWER SUPPLY

**FEATURES**

- up to 1200 W continuous power
- low profile sub-1U package
- I<sup>2</sup>C communication for monitoring and control
- redundant (N+1) operation
- blind mate connections for hot-swap
- power factor correction
- active current sharing
- remote on/off control, power good
- efficiency up to 90%



MODEL	output voltage (Vdc)	output current max (A)	output power max (W)	ripple and noise max (mVp-p)	efficiency <sup>1</sup> typ (%)
PSE-1200-12	12	100	1200	120	90

Notes: 1. At 230 Vac input, 50% load.

**PART NUMBER KEY**

**PSE-1200 - 12 - CXX**

Base Number

Output Voltage

Reserved for Custom Configurations

DISCONTINUED

**INPUT**

parameter	conditions/description	min	typ	max	units
voltage		90		264	Vac
frequency		50		60	Hz
current	at 115 Vac, 1000 W at 115 Vac, 1200 W at 230 Vac, 1200 W			10.2 12.3 6.2	A A A
inrush current	half cycle, cold start, 25°C at 115 Vac, 60 Hz at 230 Vac, 50 Hz			25 30	A A
leakage current				1.5	mArms
power factor correction		0.95	0.99		

**OUTPUT - V1 (MAIN OUTPUT)**

parameter	conditions/description	min	typ	max	units
regulation			±2		%
transient response	25% step load, recovery to 1% within 1 ms			2	%

**OUTPUT - VSB (STANDBY OUTPUT)**

parameter	conditions/description	min	typ	max	units
output voltage	VSB1 VSB2		12 5		Vdc Vdc
output current	VSB1 VSB2			500 250	mA mA
ripple and noise	VSB1 VSB2			240 150	mVp-p mVp-p
regulation	VSB1 VSB2	10.5	±5	14.5	Vdc %

**STATUS & CONTROL**

parameter	conditions/description	min	typ	max	units
I <sup>2</sup> C interface	I <sup>2</sup> C (SCL/SDA); addresses (A0, A1, A2)				
remote sense	main only, compensates for VDrop				
current share	signal wire active current share				
parallel operation	parallel non-redundant or N+1				

**PROTECTIONS**

parameter	conditions/description	min	typ	max	units
over voltage protection	inception point shutdown	120			%
over current protection	V1: hiccup mode after 100 ms auto recovery	120			%
over temperature protection	output shut down, auto recovery				

**SAFETY & COMPLIANCE**

parameter	conditions/description	min	typ	max	units
safety approvals	cTUVus UL60950-1, CE (LVD)				
emissions	FCC 15 Sub Part J, Class A, EN55022 Class A				
harmonic compliance	EN61000-3-2 Class A				
surges (mains)	IEC/EN 61000-4-5				
voltage dips/interruptions	IEC/EN 61000-4-11				
RoHS	2011/65/EU				

**ENVIRONMENTAL**

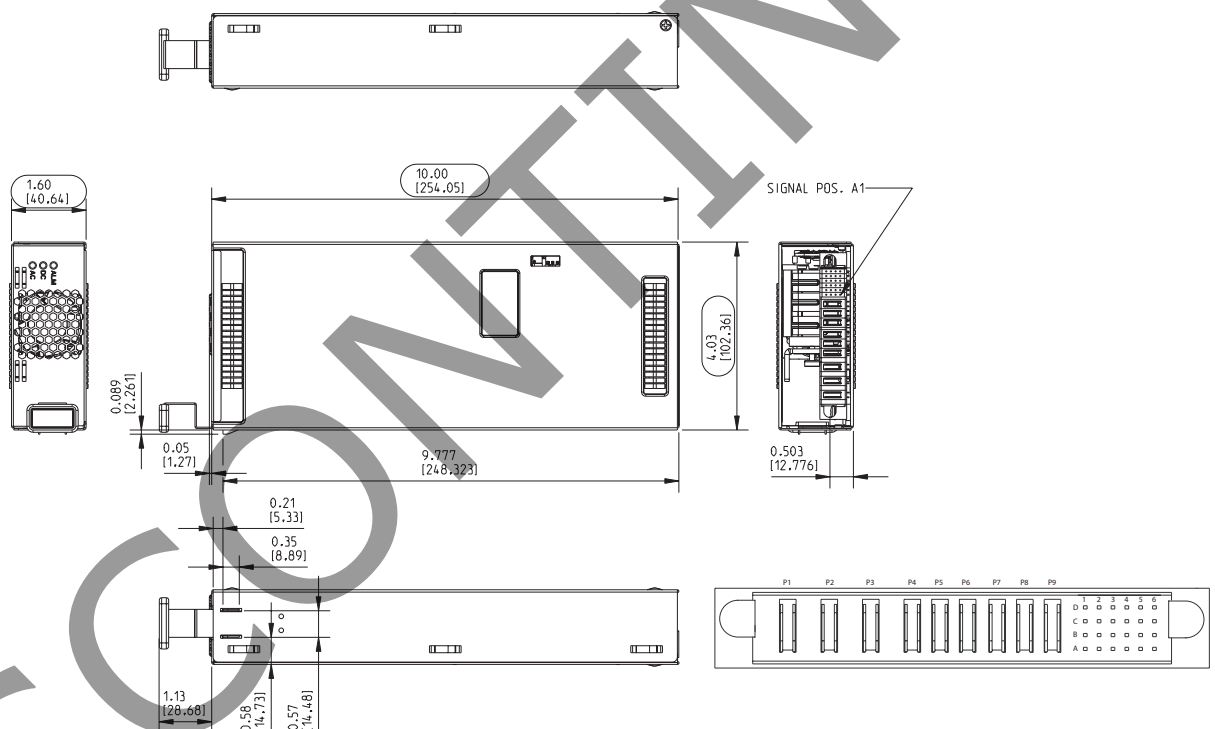
parameter	conditions/description	min	typ	max	units
operating temperature		0		50	°C
storage temperature		-40		85	°C

**MECHANICAL**

parameter	conditions/description	min	typ	max	units
dimensions	10.00 x 4.00 x 1.60 (254.0 x 102.4 x 40.6 mm)				inches
cooling / airflow	integral high performance 38 mm fan, air inlet at face; exhaust at connector				
input / output connector	FCI P/N 51939-103LF mates with FCI P/N 51866-025LF				
hot-swap capability	fully hot-swappable, blind mate connector				

**MECHANICAL DRAWING**

units: inches [mm]  
 tolerance:  
 X.XX ±0.02 [0.50]  
 X.XXX ±0.010 [0.25]

**INPUT / OUTPUT CONNECTOR**

Pins	Function	Pins	Function	Pins	Function	Pins	Function	Pins	Function
P1	Line	A1	ISHARE	B1	- Sense	C1	Secondary Return	D1	+ Sense
P2	Neutral	A2	I <sup>2</sup> C clock (SCL)	B2	Reserved	C2	V Margin	D2	Short Pin
P3	Earth/Ground	A3	A1 address (I <sup>2</sup> C)	B3	A0 Address (I <sup>2</sup> C)	C3	12 VSB	D3	EEPROM DAT (SDA)
P4	-12 V	A4	--	B4	Reserved	C4	5 VSB	D4	A2 Address (I <sup>2</sup> C)
P5	-12 V	A5	AC Fail	B5	Module Present (out)	C5	Module Present (in)	D5	--
P6	-12 V	A6	Signal Return	B6	Module Alarm	C6	Module Disable	D6	Temp Alarm
P7	+12 V	--	--	--	--	--	--	--	--
P8	+12 V	--	--	--	--	--	--	--	--
P9	+12 V	--	--	--	--	--	--	--	--

## REVISION HISTORY

rev.	description	date
1.0	initial release	05/06/2015
1.01	updated datasheet	06/08/2017

The revision history provided is for informational purposes only and is believed to be accurate.



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