

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

**FEATURES**

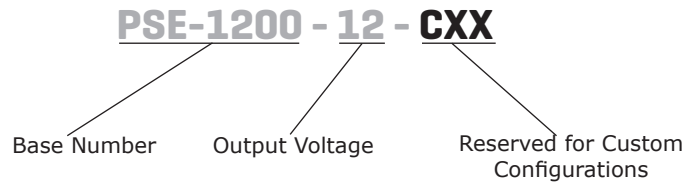
- up to 1200 W continuous power
- low profile sub-1U package
- I<sup>2</sup>C communication for monitoring and control
- redundant (N+1) operation
- blind mate connections for hot-swap
- power factor correction
- active current sharing
- remote on/off control, power good
- efficiency up to 90%



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

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

**PART NUMBER KEY**



**INPUT**

parameter	conditions/description	min	typ	max	units
voltage		90		264	Vac
frequency		50		60	Hz
current	at 115 Vac, 1000 W			10.2	A
	at 115 Vac, 1200 W			12.3	A
	at 230 Vac, 1200 W			6.2	A
inrush current	half cycle, cold start, 25°C			25	A
	at 115 Vac, 60 Hz			30	A
	at 230 Vac, 50 Hz				
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		12		Vdc
	VSB2		5		Vdc
output current	VSB1			500	mA
	VSB2			250	mA
ripple and noise	VSB1			240	mVp-p
	VSB2			150	mVp-p
regulation	VSB1	10.5		14.5	Vdc
	VSB2		±5		%

**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

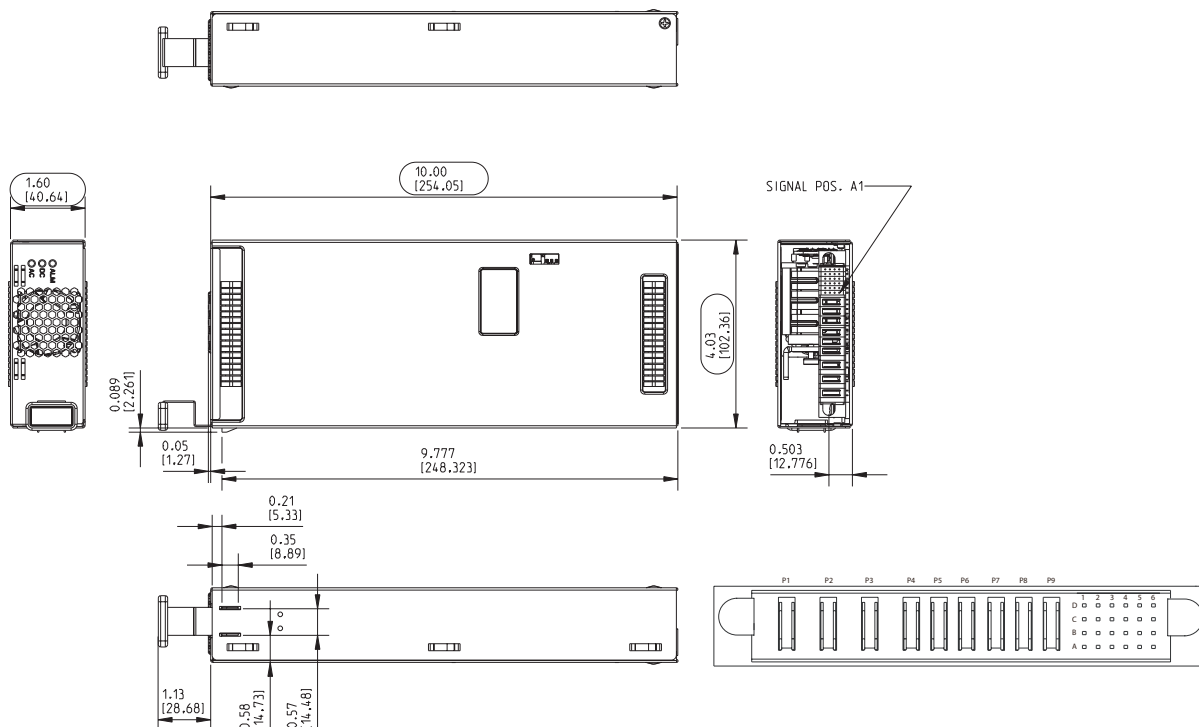
parameter	conditions/description	min	typ	max	units
operating temperature		0		50	°C
storage temperature		-40		85	°C

## 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

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<b>rev.</b>	<b>description</b>	<b>date</b>
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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