

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

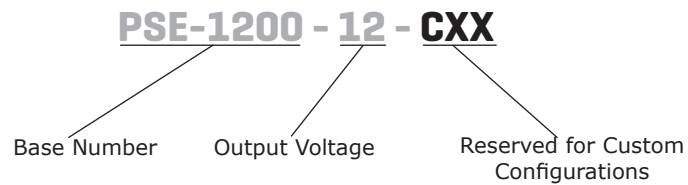
FEATURES

- up to 1200 W continuous power
- low profile sub-1U package
- I²C 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 ¹
	(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 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 ² C interface	I ² 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

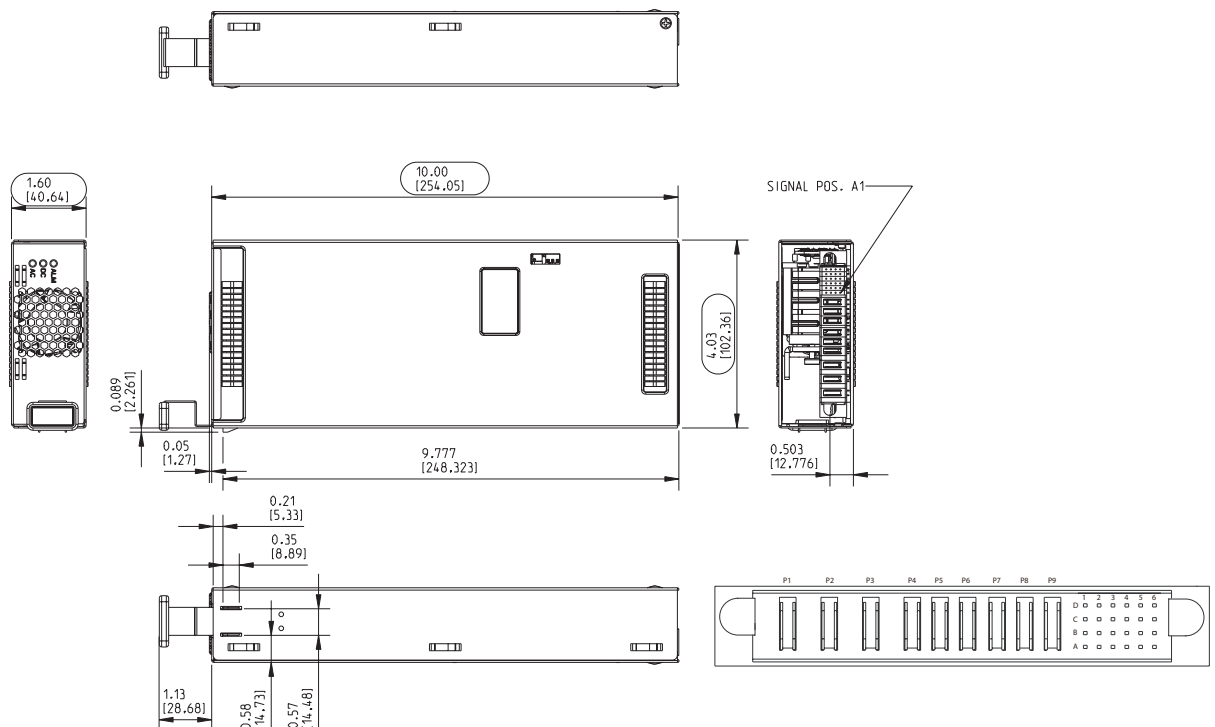
parameter	conditions/description	min	typ	max	units
operating temperature		0		50	°C
storage temperature		-40		85	°C

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 ² C clock (SCL)	B2	Reserved	C2	V Margin	D2	Short Pin
P3	Earth/Ground	A3	A1 address (I ² C)	B3	A0 Address (I ² C)	C3	12 VSB	D3	EEPROM DAT (SDA)
P4	-12 V	A4	--	B4	Reserved	C4	5 VSB	D4	A2 Address (I ² 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.



Headquarters
20050 SW 112th Ave.
Tualatin, OR 97062
800.275.4899

Fax 503.612.2383
cui.com
techsupport@cui.com

CUI offers a two (2) year limited warranty. Complete warranty information is listed on our website.

CUI reserves the right to make changes to the product at any time without notice. Information provided by CUI is believed to be accurate and reliable. However, no responsibility is assumed by CUI for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

CUI products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.