



PST14X, very high power density 320W DC-DC converter in conduction cooled format, incorporates input EMI filtering, input transient protection, output protections, very robust mechanical package and connection required in most of the severe environment for industrial, railways, defense type of applications. The converter provides high power density thanks to the integration of Vicor Corp. DCM modules, high efficiency, input-to-output isolation, soft start, overtemperature protection, input over/undervoltage lockout. The outputs are short-circuit proof. The 100°C baseplate operation allows operation in high temperature environment. The output can be configured in many different output voltages from 3,3V to 48Vdc, others possibilities are even possible as semi-standard versions.

General features

- Input : 12 Vdc (9-50V), 24Vdc (18-36Vdc)
- Input filtering EN55022A & transient protection
- Reverse polarity protection
- 1 output from 3,3V to 48Vdc
- Operating temperature -40°C to +100°C baseplate
- Dimension 160*50*25mm

Signals

- Remote ON/OFF
- Input & Output LED
- Output voltage adjustment
- Output voltage remote sense
- PowerGood

Options

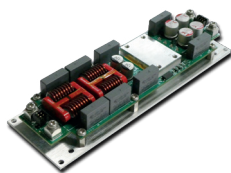
- -H : Addition of a 15mm heatsink (longitudinal fins)
- -H1 : Addition of a 15mm heatsink (transversal fins)
- -MV : MIL-STD810, 461, 704
Components & PCB are covered with an acrylic coating
- -IP : Integration into IP65 enclosure (consult factory)

Benefits

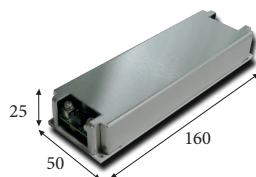
- *Extremely high power density, no fan*
- *Many outputs voltages configurations*
- *Easy to use*

Full datasheet on www.powersystemtechnology.com

PST14X DC-DC 320W
160 x 50 x 25mm



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PST14X Configurator

V I		Option	
PST14XVin	Vout Pout		
12	N N	H	
	3V3 80	H1	
	5 80	MV	
	12 160	IP	
	15 160		
	24 160		
	28 160		
	48 160		

V I		Option	
PST14XVin	Vout Pout		
24	N N	H	
	5 180	H1	
	12 320	MV	
	15 320	IP	
	24 320		
	28 320		
	36 320		
	48 320		



Assemblies of several units in parallel provide high efficiency, high temperature operation required in solar application.



24Vdc Input voltage range with 100°C baseplate operation are significant benefits for train environment.



MV option for ruggedization.



Low profile and size, conduction cooled, mode are essential for mobility application.