



DC-DC Conduction cooled

PST14
150, 250, 500W

PST14, very compact DC-DC converter in chassis mount format, incorporates input filtering, input and 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 reliability thanks to the integration of Vicor Corp. modules, high efficiency, input-to-output isolation, soft start, overtemperature protection, input over/undervoltage lockout. The converters wide range of inputs are protected against surges and transients and EMI filtered. The outputs are continuously 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, can be put in series and parallel, others possibilities are even possible as semi-standard versions.

General features

- Input : 12, 24, 48, 72, 110Vdc
- Input filtering EN55022 & transient protection
- Reverse polarity protection
- Output from 3,3V to 48Vdc
- Operating temperature -20°C +100°C baseplate
- Parallel or series operations up to several kW

Signals

- Remote ON/OFF
- Input & Output LED
- Output voltage adjustment
- PowerGood
- Remote senses (A & B versions only)
- Paralleling signal

Options

- *-H* : Addition of a 15mm heatsink
- *-M* : MIL-STD810, 461, 704
MIL-STD1275 (A & B only, 12 or 24Vdc)
- *-T* : Components to comply with -40°C operation
- *-V* : Components & PCB are covered with an acrylic coating
- *-IP* : Integration into IP65 enclosure

Benefits

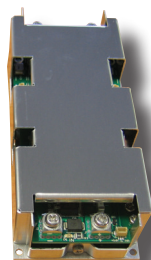
- *Many accessories* : Input & output parallel bus bar
Output serie bus bar
Output N+1 bus bar including diodes
Inhibition and parallel cable
- 35mm low profile, no fan
- Easy to use for several kW application

Full datasheet on www.powersystemtechnology.com

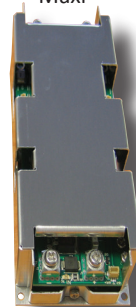
PST14C DC-DC 150W
100 x 61 x 35mm
Micro



PST14B DC-DC 250W
140 x 61 x 35mm
Mini



PST14A DC-DC 500W
225 x 61 x 35mm
Maxi



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



24, 72, 110Vdc Input voltage range with 100°C baseplate operation are significant benefits for train environment.



M option for ruggedization, active input transient protection for landing vehicle.



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



Integration & custom design with PST14



2 x PST14A24-28500-MTV

Input : 18-36Vdc
Output : 28V / 1000W
155*275*48mm Amphenol connectors IP65 package
Defense application



3 x PST14B48-28250

Input : 36-75Vdc
Output : 80V / 750W
163*184*62mm
Industrial application



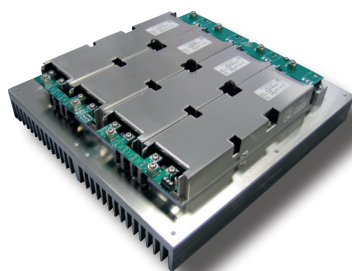
3 x PST14A24-28500-H

Input : 18-36Vdc
Output : 1500W at 28Vdc -16-30,5Vdc adjustable with potentiometer
19'' x 2U x 340mm
Test equipment application



10 x PST14A24-28400-MT-01

Input : 21.5-32Vdc
Output : 270Vdc 3500W
442*290*120mm MIL28999 serie connectors type
Defense application



4 x PST14A24-24500

Input : 18-36Vdc
Output : 24V / 2000W
300*300*50mm
Solar cabinet application