

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](http://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.



# DC-DC Conduction cooled PST14 150, 250, 500W

## 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



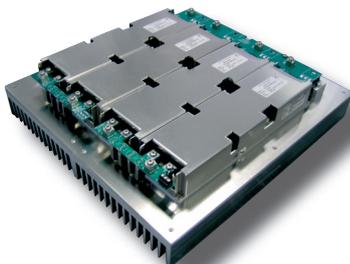
### 2 x PST14B48-48250

Input : 36-75Vdc  
Output : 48V / 500W  
163\*123\*50mm  
Solar 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