



PST27, very slim DC-DC converter in conduction cooled format, incorporates input EMI filtering, input active 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 reliability thanks to the integration of Vicor Corp. modules, high efficiency, input-to-output isolation, soft start, overtemperature protection, input over/undervoltage lockout. 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, others possibilities are even possible as semi-standard versions.

### General features

- Input : 12 Vdc (9-36V), 24Vdc (18-36Vdc)
- Input filtering EN55022 & transient protection
- Active low losses reverse polarity protection
- 1 to 2 outputs from 3,3V to 48Vdc
- Operating temperature -10°C (-40°C as an option) to +100°C baseplate
- Dimension 182\*80\*20mm

### Signals

- Remote ON/OFF
- Input & Output LED
- Input Power Fail
- Output voltage adjustment (potentiometer or external voltage)
- PowerGood

### Options

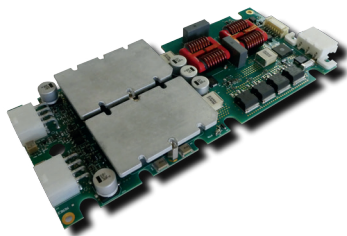
- -H : Addition of a 15mm heatsink (longitudinal fins)
- -H1 : Addition of a 15mm heatsink (transversal fins)
- -MTV : MIL-STD810, 461, 704, MIL-STD1275A  
-40°C operation  
Components & PCB are covered with an acrylic coating
- -IP : Integration into IP65 enclosure (consult factory)

### Benefits

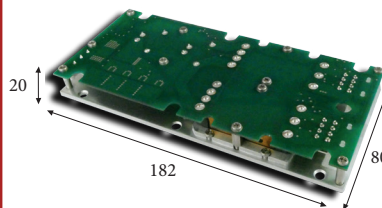
- 20 mm extremely low profile, no fan
- Input active protection for transients and reverse polarity
- Many outputs voltages configurations
- Independant outputs protected OVP, OCP
- Easy to use with Molex plug and play connector

Full datasheet on [www.powersystemtechnology.com](http://www.powersystemtechnology.com)

**PST27 DC-DC 300W**  
182 x 80 x 20mm



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### PST27 Configurator

PST27 Vin	V 1		V 2		Option
	Vin	Vout	Pout	Vout	
12	N	N	N	N	H H1 MTV IP
	3V3	50	3V3	50	
	5	50	5	50	
	12	100	12	100	
	15	100	15	100	
	24	100	24	100	
28	100	28	100	28	
	48	100	48	100	

PST27 Vin	V 1		V 2		Option
	Vin	Vout	Pout	Vout	
24	N	N	N	N	H H1 MTV IP
	3V3	75	3V3	75	
	5	100	5	100	
	12	150	12	150	
	15	150	15	150	
	24	150	24	150	
	28	150	28	150	
	48	150	48	150	



Fanless, conformal coated PSU is a benefit for industrial environment.



24Vdc 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.