



PST22, a very compact DC-DC converter in an eurocard format, incorporates input and output protection and filtering, signalling features, which are required in most of severe environment for industrial, railway applications. The PSU provides high reliability thanks to the integration of Vicor Corp. modules, high efficiency with secondary active MOSFET circuit for redundancy operation, very low ripple and noise levels, input-to-output isolation, soft start, overtemperature protection, input over/undervoltage lockout, parallel operation. The wide input range converters are protected against surges and transients and EMI filtered. The outputs are continuously short-circuit proof. Series, parallel and N+1 redundant operation are possible through an active MOSFET based circuit, improving significantly efficiency thus lowering power dissipation and allowing operation in high temperature environment, simplifying connection when several converters are connected in parallel without the need of wire connection between the converters to ensure good current sharing. LEDs at the front panel and an isolated Powergood signals indicate the status of the converter. V3 output can be either configured in high power version up to 150W with a DC-DC Vicor module or in a low power version up to 30W with switching regulator. A 4th non isolated output (-12V 1A) is available, please contact factory.

General features

- Input : 12, 24, 48, 72, 110Vdc
- Extremely slim case : 3U x 4TE x 160mm or 3U x 8TE x 160mm
- E.M.I. : EN55022, MIL-STD461E CE102 (M option), EN50155
- Output from 3,3V to 48Vdc
- Operating temperature -20°C +100°C baseplate without derating
- Parallel or series operations
- DIN 41612 H15 connector
- Safety : EN60950

Signals

- Remote isolated ON/OFF
- Output LED
- Output voltage adjustment
- PowerGood
- Remote senses (V1)

Options

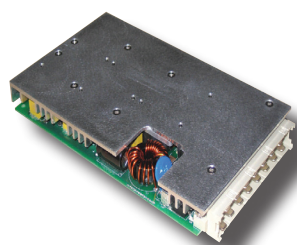
- -F : No front panel
- -R : N+1 redundancy
- -S : Very low profile 4TE
- -T : Components comply with -40°C operation
- -V : Components & PCB are covered with an acrylic coating
- -X : Integration of energy storage in place of V3 for EN50155 S2 compliance

Benefits

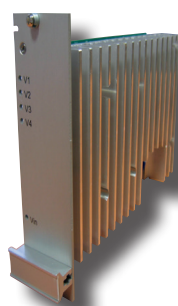
- 1, 2 or 3 isolated outputs up to 150W each
- Very high efficiency
- High temperature operation 100°C baseplate
- Adjustable output voltage +/- 10 %
- Redundant operation (N+1) with active circuit (no diode losses)
- 4th output -12V 1A non isolated. Contact factory

Full datasheet on www.powersystemtechnology.com

PST22-S
4TE



PST22
8TE



PST22 CONFIGURATOR

PST22	V1		V2		V3		Option
	Vin	Vout	Vout	Pout	Vout	Pout	
12	N	N	N	N	N	N	F
24	3V3	50	3V3	50	3V3	LP	R
48	5	75	5	75	5	50	S
72	12	100	12	100	12	75	T
110	15	150	15	150	15	100	V
	24		24		24	150	X
	28		28		28		
	48		48		48		

LP : Low power output configuration.

4th optional output, please contact us



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



12, 24, 72, 110Vdc Input voltage range with 100°C baseplate operation are significant benefits for railway environment.