

# PST23 Standard product

## Features

- 12, 24, 48, 72, 110Vdc Input voltage ranges
- 1 isolated output up to 150W
- 100\*78\*20mm Fast On connectors
- Surge and transient protection EN50155
- Many output configurations available
- Conduction cooled 100°C baseplate



Safety IEC/EN 60950-1, RoHS lead-free-solder compliant



The PST23, very compact DC-DC converter in chassis mount format, incorporate input filtering, input and output protections, very robust mechanical mounting and connection, optional conformal coating, required in most of the severe environment for industrial, railways 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 outvoltage from 3V3 to 48Vdc, others possibilities are even possible as semi-standard versions.

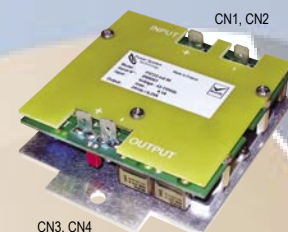
## Electrical Input Data

Input Characteristics	Conditions	12		24		48		72		110		Unit						
		min	typ	min	typ	min	typ	min	typ	min	typ							
Operating input voltage		9	12	36	18	24	36	36	48	75	43	72	110	66	110	154	V	
Input surge	< 100ms			50			50			100			150			250	V	
Undervoltage turn-on			8,8	8,9		17,5	17,9		35	35,8		41,7	42,6		64	65,4	V	
Undervoltage turn-off			8,5		14,8	15,3		29,4	30,5		35,2	36,5		54	56		V	
Overvoltage turn-off/on			36,3	37,8	39,6	36,3	37,8	39,6	76	79	82,5	111	115	121	154	162	170,9	V
Input current	Vin min		4	4		4	4		4	4		2	4		1	2	A	
No-load input power			3			3			3			3			3		W	
Peak inrush current	Vin max												90				A	
Rise time inrush													10				µs	
Start-up time																	ms	

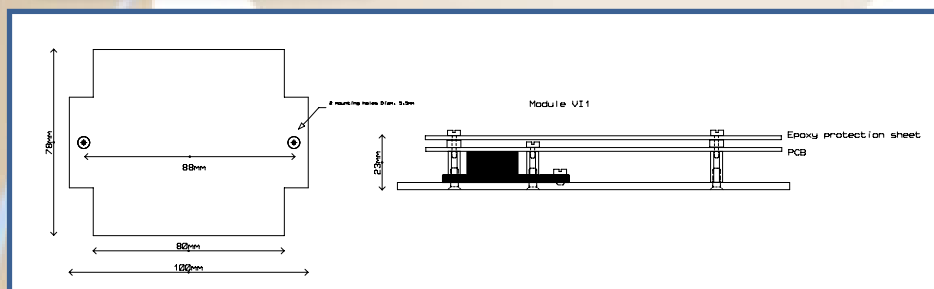
## Electrical Output Data

Output data - Input 24, 110Vdc

Output Characteristics	Conditions	3V3			5V			12V			15V			24V			28V			48V			Unit
		min	typ	max	min	typ	max	min	typ	max	min	typ	max	min	typ	max	min	typ	max	min	typ	max	
Output voltage			3V3			5			12			15			24			28			48	V	
Trim range	Factory Adjustable	1,5		3,6	2,5	5,5	6		13,2	7,5		16,5	12		26,2	14		30,8	24		51,8	V	
Overvoltage protection			4,5			6,5			14,9			18,5			29,1			34			58	V	
Nominal output current		0	15	15	0	15	20	0	8	8,3	0	6	6,7	0	4	4,2	0	3,5	3,6	0	2	2,1	A
Output current limit			17,5	21		25	27		9,5	11		7,6	8,7		4,8	5,7		4,1	5		2,4	2,8	A
Output noise	20MHz		150			150			180			180			180			180			180		mVpp
Efficiency			75			83			87			88			87			87			86		%
Load Regulation	Vin nom.			0,4			0,4			0,4			0,4			0,4			0,4			0,4	%



## Mechanical Data



## Connector Pin Allocation

Ref: FAST ON Male 6,3\*0,5mm

PIN	Description	
CN1	INPUT +	Positive input voltage
CN2	INPUT -	Negative input voltage
CN3	OUTPUT +	Positive output voltage
CN4	OUTPUT -	Negative output voltage

In partnership with



Power System Technology - 19,21 rue Gustave Eiffel - Bât. A2 - 28630 Gellainville (France)