

VX6625 Quad System Power Supply



TECHNICAL DATA SHEET

PXI

VXI

LAN

cPCI

PXIe

GPIB

USB

RS232
485

external
PCIe

Features

- CompactPCI quad system power supply, 10V, 250mA each channel
- Readback function of all voltages and currents
- Specially designed for testing battery powered modules
- Very fast rise and fall times
- Sense inputs for superior load control
- Autosensing to protect DUTs
- Digital calibration via system interface

Product Information

The VX6625 is a four-output programmable power supply with an integrated compactPCI interface.

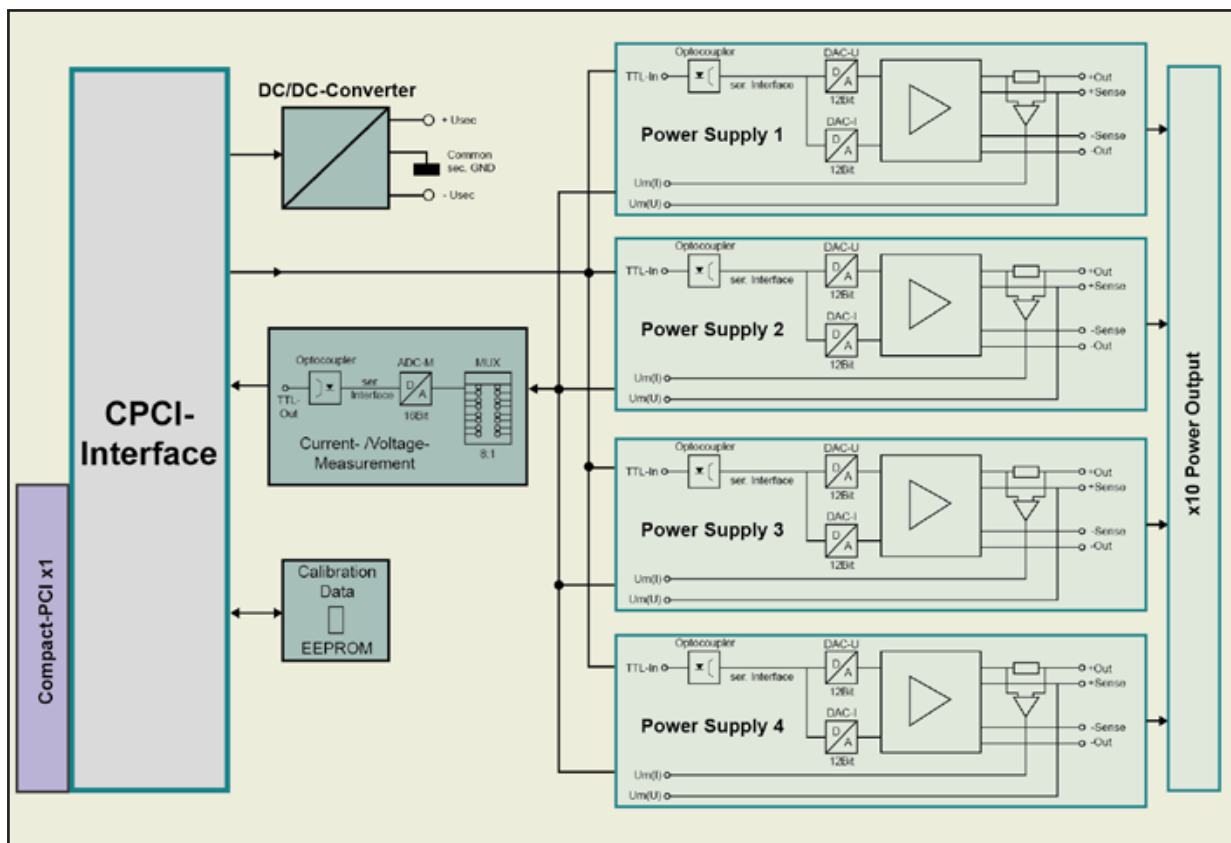
The VX6625, 3U double slot compactPCI module, is designed for testing battery powered devices.

The maximum output voltage is 10V at an current limit of up to 250 mA for each power supply output. The VX6625 has an integrated readback function for output voltage and current. The current measurement capability (μ A-Range) allows testing of low power devices (e. g. battery powered).

For safety reasons the VX6625 supports the following built-in security features required in automatic testing:

- Autosensing. If the sense line is not connected the output is used as the sense point automatically.
- Broken sense line. The output voltage is reduced by the voltage drop across the load line automatically.
- Shorted sense line. The output voltage is limited to 3V above programmed value.

The instrument calibration is done digitally and fully automatical. The calibration data are stored in on-board EEPROM.



General	Specification	Comment
Module size	2 cPCI slots, 3U	
Number of outputs	4	Common ground, isolated against PE
Module weight	<0.5 kg	
Front connector type	25pol. D-SUB female	
Storage temperature range	-25 ... 70°C	
Operating temperature	0 ... 40°C	
Operating altitude	<2 000 m	
Relative humidity	Up to 85% at 35°C	
Electrical safety	According EN61010-1	
Isolation output to PE	250 V CAT I, Pollution Degree 2	

Power Supply Output 1 to 4	Specification	Comment
Output voltage		
Range	0 ... 10 V	Programmable voltage range
Resolution	12 Bit (2.5 mV)	
Accuracy	0.5% +10 mV	± (of programmed value + offset)
Output current range 1		
Range	0 ... 250 mA	Programmable current load
Resolution	12 Bit (100 µA)	
Accuracy	1% + 2 mA	± (of programmed value + offset)
Current limit	10 ... 250 mA	Programmable current limit
Output current range 2		
Range	0 ... 250 µA	Programmable current load
Resolution	12 Bit (10 µA)	
Current limit	250 µA	Fixed value for current limit

Measurement Unit 1 to 4	Specification	Comment
Voltage		
Range	0 ... 10 V	
Resolution	16 Bit (<250 µV)	
Accuracy	0.2% + 5 mV	± (of measured value + offset)
Current range 1¹		
Range	0 ... 250 mA	
Resolution	16 Bit (5 µA)	
Accuracy	0.5% + 1 mA	± (of measured value + offset)
Current range 2¹		
Range	0 ... 250 µA	
Resolution	16 Bit (5 nA)	
Accuracy	1% + 3 µA	± (of measured value + offset)
Current limit	250 µA	Fixed value for current limit

¹ Current measurement range is equal to current range of selected power supply.

Notes: All product data are specified for an ambient temperature of 23°C ±5°C (after 1 hour warm-up time).
Product specification and description in this document are subject to change without notice.

FOR YOUR NOTES

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