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, 10 V, 250 mA 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.

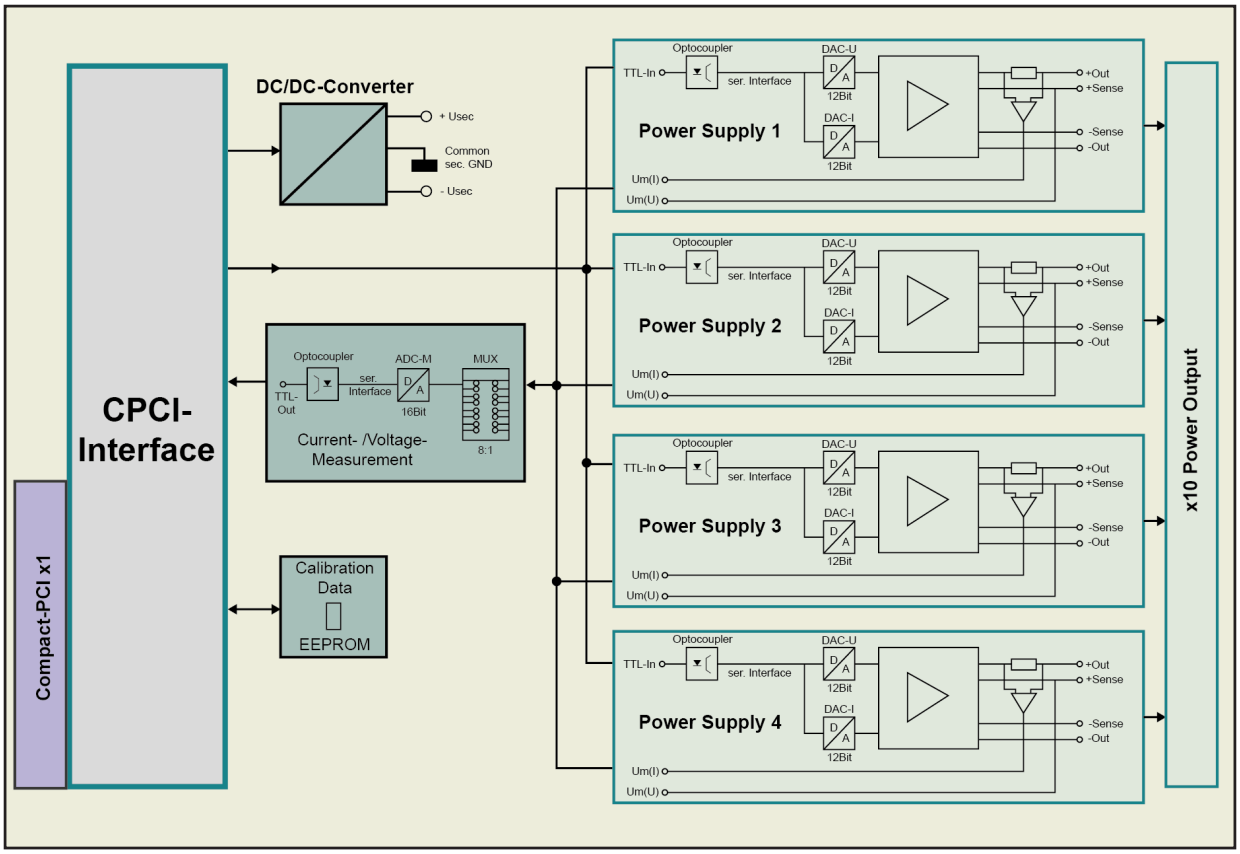
The VX6625, 3U double slot compactPCI module, is designed for testing battery powered devices.

The maximum output voltage is 10 V 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 (µA-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 3 V above programmed value.

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



General	Specification	Comment
Module size	2 cPCI slots, 3U	
Number of outputs	4	Common ground, isolated against PE
Module weight	<0.7 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 1[1]		
Range	0 ... 250 mA	
Resolution	16 Bit (5 µA)	
Accuracy	0.5% + 1 mA	± (of measured value + offset)
Current range 2[1]		
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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Revision Date: 2018-01-10