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Find the *VX Instruments VX4605* at our website: ***Click HERE***

VXI Instruments®
the test solutions provider

VX4605 System Power Supply



Features

- ✓ System Power Supply 40Volt, 6Amp
- ✓ Especially designed for automatic test systems
- ✓ Auto-Sensing to protect UUTs reliable
- ✓ Integrated discharge capability for large capacitors
- ✓ Very low rise and fall times due to push-pull power amplifier
- ✓ Designed for high throughput testing
- ✓ System interface RS232, USB or IEEE-488
- ✓ Digital calibration via system interface, no analog adjustments

VX4605 System Power Supply

Product information:

The VX4605 system power supply is specially designed for Automated Test Equipment (ATE). An Auto-Sensing feature is an integrated build-in security feature to protect Units Under Test (UUT).

The VX4605 is a 19", 3U rack mounting power supply and can be programmed via the RS232, USB or IEEE-488 interface (USB and IEEE-488 interface are optional). The remote interface is galvanically separated.

For safety reasons the VX4605 does support the following build-in security features required in automatic testing:

- Auto-Sensing. If the sense line is not connected the output will be used as the sense point automatically.
- Broken sense line. The output voltage will be reduced about the voltage drop across the load line automatically.
- Shorted sense line. The output voltage will be limited to 8V above programmed value.

Figure A shows the standard configuration using force and sense lines. Having an open sense line (Figure B) the power supply will be used the force line automatically as the reference sense point and the output voltage will be dropped. No over voltage will be applied and the UUT can not be damaged.

The VX4605 does compensate a voltage drop of up to 3 Volt on each force line.

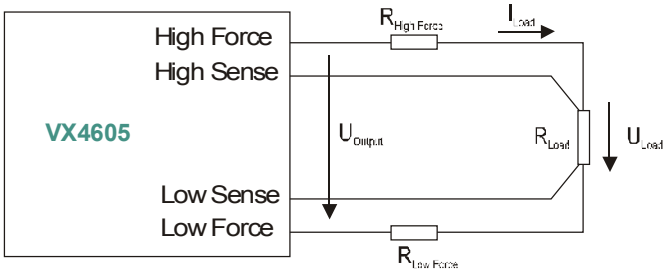


Figure A

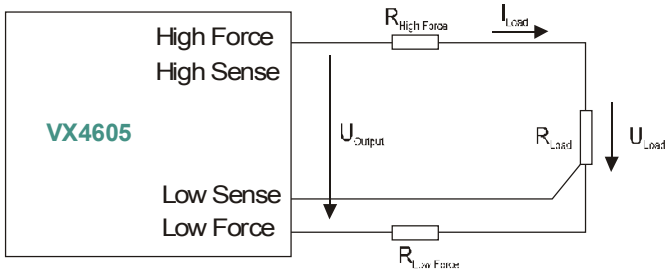


Figure B

The integrated discharge ability for capacitors is a valuable feature to protect test systems relays when signal paths are switched under load conditions. This feature discharges large capacitors with currents up to 2A. The discharge procedure is activated also, when the output voltage will change from a higher to a lower voltage. Standard power supplies do not support automatic discharging.

Stable regulation even with long load connections.

Two VX4605 can be daisy chained to a Master/Slave combination. The programming will be done via the IEEE-488 interface of the master supply.

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

All product data(1) are specified for an ambient temperature of 23°C ± 5°C, after 1 hour warm-up time

Output ratings	Specification	Comment
Output voltage	0 V - 40 V	
Resolution	12 Bit	
Accuracy	40mV	
Temperature coefficient	100ppm/°K	
Sensing voltage	3V	
Internal capacitor	220µF	
Rise- and fall time	5ms	Rise and fall time 0/90% and 100/10% of output voltage
Transient response time	200µs	Load change 20 to 80%
Line regulation	2mV	
Load regulation	2mV	
Ripple and noise	$5mV_{rms}$	

Output ratings	Specification	Comment
Output current	0 A – 6A	
Resolution	12 Bit	
Accuracy	30mA	
Temperature coefficient	100ppm/°K	
Line regulation	1,5mA	
Load regulation	1,5mA	
Ripple and noise	$6mA_{rms}$	

VX4605 System Power Supply

General	Specification	Comment
AC input voltage	$210V_{AC}$ – $250V_{AC}$	
AC input frequency	47Hz … 63Hz	
Operating temperature	0 to 50°C	
Test voltage, Output to chassis	$500V_{DC}$	
Output capacitor	200µF	

Ordering information	Option	Comment
	Option A	USB Interface
	Option B	IEEE-488 Interface

Instrument Driver:

The instrument integration is simplified with VXI*plug&play* drivers. A soft front panel is included to control and verify the instrument without writing a user program.

Quality:

All VX Instruments products are designed and built with ISO-9001 certified quality at VX Instruments facility in Landshut, Germany. VX Instruments stands behind their products with a full two-year warranty.

(1) Product specification and description in this document are subject to change without notice

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