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Find the *Interface Technology RG2500* at our website: *Click HERE*

RG2500 & RG2516

Rail Generators for SR2500 Digital Test Subsystem



- Provides Voltage Rails For Multiple 32-Channel Variable Voltage I/O Boards
- Each Voltage Group Consisting of a Voh and Vol Output Level, and a Vih and Vil Input Threshold
- Programmable Voltage Range -4.0 to +7.0 Vdc (RG2500) or -16.0 to +16.0 Vdc (RG2516)
- Voltage Group May Be Selected In Groups of Four Channels (RG2500) or Programmed in Groups of Sixteen Channels (RG2516)

The RG2500 and RG2516 Rail Generators are programmable I/O rail generators consisting of multiple programmable power supplies, which are used to provide logic level voltages to the SR2510 and SR2520 modules when these modules are configured for programmable I/O. Packaged in a single C-sizeVXI module, the RG2500 or RG2516 can supply proper voltage rails for multiple 32-channel I/O boards. Multiple rail generators may be used to expand the variable voltage channel count to the maximum number of channels available in the the SR2500 system (up to576).

For the RG2500, each I/O board is provided an A and a B voltage group consisting of a Voh and Vol output level, and a Vih and Vil input threshold. Voltages are programmable in the range of -4.0V to +7.0V and either the A or the B voltage group may be selected in groups of four channels. For the RG2516, each sixteen-channel group can be programmed with its own unique Voh and Vol output level, and Vih and Vil input threshold, and are programmable in the range of -16.0V to +16.0V.

The current load of the power supplies are continually monitored for over-current conditions. All outputs are disabled if excessive current is drawn from any one of the power rail outputs. After an over-current condition has occurred the system will check periodically to determine if the condition still exists. If the overload no longer exists, then the power rails are restored to normal operation. Connectors are provided on the front panel for distributing the rail voltages and threshold references to the I/O channels installed in the SR2510 Main Module and the SR2520 Expansion Module.

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*SPECIFICATIONS**

RG2500

Voltage Specifications:

Voltage	Description	Output Range
V_{OH}	Output Voltage High	-1.5 to +7.0 volts
V_{OL}	Output Voltage Low	-4.0 to +4.5 volts
V_{TH}	Threshold Voltage High	-4.0 to +5.5 volts
V_{TL}	Threshold Voltage Low	-4.0 to +5.5 volts

VXI Specifications

Interface Compatibility:

RG2500	Register-based, servant only (controlled by SR2510)
VXI Revision	1.4
Size	C-size, single slot
Configuration	Static

Power Requirements:

+24.0 volts	1.0 A	24 W max.
+12.0 volts	1.0 A	12 W max.
+5.0 volts	7.0 A	35 W max.
-5.2 volts	5.0 A	26 W max.
-12.0 volts	1.0 A	12 W max.
-24.0 volts	1.0 A	24 W max.

Cooling Requirements:

Power	40W max. (15W typical)
Airflow	4L/sec @ 0.2mm water pressure for 10° temperature rise

Environmental Specifications:

Temperature	Storage = -40°C to +75°C Operating = 0°C to +45°C
Humidity	5% to 95% relative, noncondensing

RG2516

Voltage Specifications:

Voltage	Description	Output Range
V_{OH}	Output Voltage High	-16 to +16 volts
V_{OL}	Output Voltage Low	-16 to +16 volts
V_{TH}	Threshold Voltage High	-13 to +13 volts
V_{TL}	Threshold Voltage Low	-13 to +13 volts

VXI Specifications

Interface Compatibility:

RG2516	Register-based, servant only (controlled by SR2510)
VXI Revision	1.4
Size	C-size, single slot
Configuration	Static

Power Requirements:

+24.0 volts	1.5 A	36 W max.
+12.0 volts	0.2 A	2.4 W max.
+5.0 volts	7.0 A	35 W max.
-5.2 volts	5.0 A	26 W max.
-12.0 volts	0.2 A	2.4 W max.
-24.0 volts	1.5 A	36 W max.

Cooling Requirements:

Power	100W max. (40W typical)
Airflow	8L/sec @ 0.2mm water pressure for 15° temperature rise

Environmental Specifications:

Temperature	Storage = -40°C to +75°C Operating = 0°C to +45°C
Humidity	5% to 95% relative, noncondensing

* Specifications subject to change without notice.

Interface Technology, Inc. • 300 S. Lemon Creek Dr., • Walnut CA • 91789
Phone: (909)595-6030 • FAX: (909)595-7177 • e-mail: info@interfacetech.com • www.interfacetech.com

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