

Applications

- Burn in
- Control Systems
- DC Load
- DC Power Supply
- Device Testing
- In System DC Power
- Power Distribution
- Power supply testing

Industries

- Automotive
- Avionics
- Manufacturing ATE
- Military
- Telecom
- Utilities

Montreal

9450 Trans Canada Hwy
St. Laurent QC H4S 1R7
Tel: (514) 856-0970
Fax: (514) 856-6983

Ottawa

107-235 Stafford Rd. W.
Nepean ON K2H 9C1
Tel: (613) 829-6859
Fax: (613) 829-5908

Toronto

2-1795 Ironstone Manor
Pickering ON L1W 3W9
Tel: (905) 839-4290
Fax: (905) 839-0452

Calgary

111-7879 8th Street NE
Calgary AB T2E 8A2
Tel: (403) 247-3725
Fax: (403) 202-2016

Built In Features

- UP TO 2400 WATTS
- UP TO 16 CHANNELS
- MASTER / SLAVE OPERATION
- SWITCHING AND/OR LINEAR SUPPLIES
- CURRENT SHARE CIRCUITRY TO EQUALIZE CURRENT
- PARALLEL OPERATION FOR REDUNDANCY OR TO INCREASE CURRENT
- WIDE-RANGE AC OR DC INPUT
- BENCHTOP OR 19" RACMOUNT—3U HIGH
- POWER FACTOR CORRECTED
- OVERVOLTAGE PROTECTION
- AC/DC POWER DISTRIBUTION



Testforce's Power Grid is a unique system power resource. The Power Grid allows you to specify a custom configuration featuring DC power supplies, static loads, and power distribution. Many combinations are available ranging in size from 1U to 5U height (1 3/4" ~ 8 3/4"). Testforce's variety of single and multi-output power modules offers you a selection of output voltages from a nominal 3.3 volts to 120 volts.

Power modules range from 15 watts to 1500 watts. For higher voltage, modules can be interconnected in series. Modules can also be paralleled to increase current capability or provide redundancy. You can select from switching modules with fixed or adjustable outputs, or linear series modules for analog programmable applications. Digitally programmable (IEEE 488.2) plug-in power supplies are available for test applications.

The Power Grid can be used anywhere in the world for any application. Truly universal input ranges are standard on every product (85-264 volt) inputs. Many sizes are available with Power Factor Correction (PFC). Models with d-c inputs (12V-150V d-c) are also available.

Multiple combinations of power supplies, loads, and power distribution can be specified. Up to 16 outputs per assembly or 2400 Watts total power. The unit's static load option can accommodate 8 channels or 600 Watts total power dissipation. Select front panel controls such as meters, LEDs, test points, pots, connectors, etc. Select rear panel components: a-c and / or d-c input connections and barrier strips for the d-c output. All Power Grid products can be custom screened and painted to suit any special requirement.



As a DC Power Supply



As a DC Power Supply the Power Grid offers up to 2400 Watts of output

power. Each channel can be adjusted from 0 to 125% of nominal setting. A maximum of 16 output channels can also be installed in the Power Grid's 3U (5¼") chassis. Power supply modules can be switching, linear or a combination of both. Output sense lines enable user definable voltages to be delivered directly to the load. Each channel has full internal parameter monitoring including voltage, current.

As a Static Load

As a Static Load the Power Grid offers up to 600 Watts loading capability. This can be as a single channel or up to 8 independent channels. Built in disconnect relays enable the loads to be turned on or off via remote control.

As a Power Distribution Box



As a Power Distribution Box the Power Grid offers the capability of providing AC and DC power distribution.

The unit offers an easily accessible kill switch, alarms output, and up to 4 switched/unswitched NEMA-15 plugs. Internal relays enable the power distribution system to control in system resources such as fans, housekeeping supplies, safety interlocks, and so on.

DC Power Supply Modules Typical specifications

Power modules: 15 Watts — 1500 Watts
 Output voltage specs: 3.3 V, 5V, 12V, 15V, 24V, 28V, 48V, 72V, 120V
 Output current specs: Models up to 430 A

GENERAL SPECIFICATIONS

SPECIFICATION		RATING/DESCRIPTION	CONDITION
Temperature	Operating	-10 to +50°C	See rating curves, figure 1 and figure 2
	Start up	-20 to -10°C	
	Storage	-30 to +75°C	
Humidity	Operating	10 to 95% RH	Wet bulb temperature <35°C No condensation
	Storage	10 to 95% RH	
Vibration	5-10Hz	10mm amplitude	Sweep time 10 min. 1 hr each axis, not operating
	10-200Hz	2g	
Shock	Acceleration	30g 1/2 sine pulse ⁽¹⁾ duration 11 ±5 msec	3 shocks each axis, not operating
Withstand Voltage	Input-Output	a-c 3.0KV 1 min.	Cutout current ⁽²⁾
	Input-Ground	a-c 2.0KV 1 min.	Cutout current ⁽²⁾
	Output-Ground	a-c 500V 1 min.	Cutout current ⁽²⁾
Insulation Resistance	Input-Output	>100MΩ	500V d-c ⁽³⁾
	Input-Ground	>100MΩ	500V d-c ⁽³⁾
	Output-Ground	>100MΩ	500V d-c ⁽³⁾
Safety Standards		UL1950	Certified by UL
		CSA C22.2 No. 950-95	
		EN 60950	Cerified by TÜV

COMMON INPUT CHARACTERISTICS

SPECIFICATIONS		RATING/DESCRIPTION	CONDITION
Input Voltage Range		85-265V a-c 110-370V d-c ⁽²⁾	0-100% load, -10 to +50°C
Input Frequency Range		47-66Hz	0-100% load, -10 to +50°C
EMI	Conducted Noise ⁽¹⁾	FCC Class B, VCCI-Class B EN 55011-B, EN 55022-B	50-600W models. 1500W models require noise filter: PN 245-0031
	Radiated Noise ⁽¹⁾	FCC Class B, VCCI-Class B EN 55011-B, EN 55022-B	
Immunity To Electrostatic Discharge (ESD)		EN 61000-4-2 Level 4	Normal operation
Radiated Susceptibility		EN 61000-4-3 Level 3	Normal operation
Electrical Fast Transient		EN 61000-4-4 Level 3	Normal operation
Surge Withstand		EN 61000-4-5 Level 4	No damage
Conducted Susceptibility		EN 61000-4-6 Level 3	Normal operation
Power Freq Mag Field		EN 61000-4-8 Level 4	Normal operation
Voltage Dips, Short Interruptions and Voltage Variations		EN 61000-4-11	Normal operation
Input Harmonics		EN 61000-3-2	

Specifications subject to change without notice. Power supply specifications apply to Kepco Inc. modules. Any trademarks referred to are property of their respective organizations.