Slimline Plug & Play Power Supply Series 200W/400W/600W



Slimline Power Supply

User Configurable 1U size

PLUG & PLAY POWER next generation power source

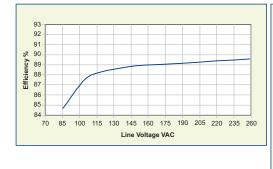
FEATURES

- Slimmest 600W configurable power
- 750W available (see XLD datasheet)
- Extra low profile: 1U height (40mm)
- All outputs fully floating
- Ultra high efficiency, up to 89%
- Plug & Play Power
- allows fast custom configuration - allow easy logistics
- allow easy logistics
- FLEXIMOUNT Flexible mounting system
 Few electrolytic capacitors (all long life)
- Visual LED indicators
- Series / Parallel of multiple outputs
- 5V bias standby voltage provided
- Individual output control signals

APPLICATIONS INCLUDE

- Industrial machines
- Test and measurement
- Automation equipment
- Printing
- Telecommunications
- For Medical applications see Xmite

EFFICIENCY (typical)







The Xiite family of power supplies provides up to 600W in a slimline 1U x 260 x 89mm package. Providing up to 8 isolated outputs, the Xiite family is the most flexible power supply in its class and brings affordable configurable power to the 200-600W market.

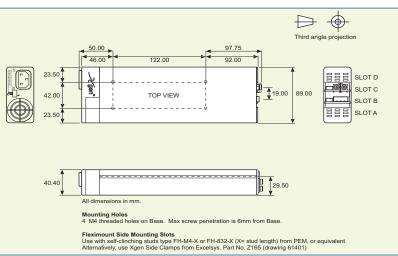
The slimline product boasts unrivalled power density saving valuable system space. Combine with ultra high efficiencies, the X_{lite} family provides system designers with flexible instant solutions that significantly shorten and simplify system design-in time.

The Xiite family consists of 3 *powerPac* models in 200W, 400W and 600W power levels. Each *powerPac* model may be populated with up to 4 *powerMods* selected from the table of *powerMods* shown below.

All configurations carry full safety agency approvals, UL60950, EN60950 and are CE marked. For alternative power interfaces contact support@excelsys.com

powerMods					powerPacs				
	MODEL	Vr	nin(4)	Vnom	Vmax(4)	Imax	Watts	MODEL	Watts
		Vtrim	Vpot					XLA	200W
	Xg1	1.0	1.5	2.5	3.6	50A	125W	XLB	400W
	Xg2	1.5	3.2	5.0	6.0	40A	200W	XLC	600W
	Xg3	4.0	6.0	12.0	15.0	20A	240W	<u></u>	00011
	Xg4	8.0	12.0	24.0	30.0	10A	240W	XLD	750W
	Xg5	8.0	24.0	48.0	58.0	6A	288W	See XL	D datasheet
-	Xg7	5.0	5.0	24.0	28.0	5A	120W		
	Xg8 V1 V2	5.0 5.0	5.0 5.0	24.0 24.0	28.0 28.0	3A 3A	72W 72W		

MECHANICAL SPECIFICATIONS



200W/400W/600W Slimline Plug & Play Power Supply Series

SPECIFICATION applies to configured units consisting of powerMods modules plugged into the appropriate powerPac

INPUT					
Parameter	Conditions/Description	Min	Nom	Max	Units
Input Voltage Range	Universal Input	85		264	VAC
		120		380	VDC
Input Frequency Range		47		63	Hz
Power Rating XLA/XLB/XLC	Derate linearly from 600W at 180VAC to 400W at 85VAC		200/400/600)	W
Input Current XLA/XLB/XLC	85VAC in 4.0		4.0/6.0/7.5		A
Inrush Current	230VAC @ 25°C			50	A
Undervoltage Lockout	Shutdown	65		74	VAC
Fusing XLA	250V 5 x 20mm		F5A HRC		
XLB	250V 5 x 20mm		F6.3A HRC		
XLC	250V 5 x 20mm		F8A HRC		
OUTPUT					
Parameter	Conditions/Description	Min	Nom	Max	Units
powerMod Power	As per powerMod table				
Output Adjustment Range	Manual: Multi-turn potentiometer. As per powerMod table				
	Electronic: See Xgen Designers' Manual				
Minimum Load			0		А
Line Regulation	For ±10% change from nominal line			±0.1	%
Load Regulation	For 25% to 75% load change			±0.2	%
Cross Regulation				±0.2	%
Transient Response	For 25% to 75% load change Voltage Deviation			10	%
	Settling Time			250	μs
Ripple and Noise	20MHz Bandwidth			1.0	% pk-pk
Overvoltage Protection	Two-level. 1st level: Vset Tracking. 2nd level: Vmax (Latching)	110		125	%
Overcurrent Protection	Straight line with hiccup activation at <30% of Vnom	110		120	%
B 1.0	See Designer's Manual for full details				1/00
Remote Sense	Max. line drop compensation. (except Xg7, Xg8)			0.5	VDC
Overshoot	From AQ In / Fronkla simul			2	%
Turn-on Delay Rise Time	From AC In / Enable signal			600 / 30	ms
	Monotonic For nominal output voltages at full load	20		5	ms
Hold-up Time Output Isolation	Output to Output / Output to Chassis	500 / 500			ms VDC
•		5007500			VDC
GENERAL					
GENERAL Parameter	Conditions/Description	Min	Nom	Max	Units
	Conditions/Description Input to Output	Min 3000	Nom	Max	Units VAC
Parameter			Nom	Мах	
Parameter Isolation Voltage Efficiency	Input to Output Input to Chassis 230VAC, 400W @ 24V	3000	Nom 89	Max	VAC
Parameter Isolation Voltage Efficiency Safety Agency Approvals	Input to Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875	3000			VAC VAC %
Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current	Input to Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C	3000		Max 1.5	VAC VAC
Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals	Input to Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Xgen Series datasheet	3000 1500	89	1.5	VAC VAC % mA
Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply	Input to Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Xgen Series datasheet Always ON. Current 250mA	3000		1.5	VAC VAC % mA VDC
Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals	Input to Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Xgen Series datasheet Always ON. Current 250mA Failures per million hours at 25°C and full load powerMod	3000 1500	89	1.5 5.2 0.98	VAC VAC % mA VDC fpmh
Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply	Input to Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Xgen Series datasheet Always ON. Current 250mA	3000 1500	89	1.5	VAC VAC % mA VDC
Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply	Input to Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Xgen Series datasheet Always ON. Current 250mA Failures per million hours at 25°C and full load powerMod	3000 1500	89	1.5 5.2 0.98	VAC VAC % mA VDC fpmh
Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability	Input to Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Xgen Series datasheet Always ON. Current 250mA Failures per million hours at 25°C and full load powerMod	3000 1500	89	1.5 5.2 0.98	VAC VAC % mA VDC fpmh
Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC	Input to Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Xgen Series datasheet Always ON. Current 250mA Failures per million hours at 25°C and full load powerMod See Designers' Manual. powerPac excludes fans powerPac	3000 1500	89 5.0	1.5 5.2 0.98	VAC VAC % mA VDC fpmh fpmh
Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter	Input to Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Xgen Series datasheet Always ON. Current 250mA Failures per million hours at 25°C and full load powerMod See Designers' Manual. powerPac excludes fans powerPac	3000 1500	89 5.0	1.5 5.2 0.98	VAC VAC % mA VDC fpmh fpmh
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Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted	Input to Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Xgen Series datasheet Always ON. Current 250mA Failures per million hours at 25°C and full load powerMod See Designers' Manual. powerPac excludes fans powerPac Standard EN55011, EN55022, FCC	3000 1500	89 5.0 Level	1.5 5.2 0.98	VAC VAC % mA VDC fpmh fpmh
Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated	Input to Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Xgen Series datasheet Always ON. Current 250mA Failures per million hours at 25°C and full load powerMod See Designers' Manual. powerPac excludes fans powerPac Standard EN55011, EN55022, FCC EN55011, EN55022, FCC	3000 1500	89 5.0 Level Level B Level B	1.5 5.2 0.98	VAC VAC % mA VDC fpmh fpmh
Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion	Input to Output Input to Othassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Xgen Series datasheet Always ON. Current 250mA Failures per million hours at 25°C and full load powerMod See Designers' Manual. powerPac excludes fans powerPac Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN55011, EN55022, FCC EN55011, EN55022, FCC	3000 1500	89 5.0 Level Level B Level B Level B	1.5 5.2 0.98	VAC VAC % mA VDC fpmh fpmh
Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker and Fluctuation	Input to Output Input to Othassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Xgen Series datasheet Always ON. Current 250mA Failures per million hours at 25°C and full load powerMod See Designers' Manual. powerPac excludes fans powerPac Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN55011, EN55022, FCC EN55011, EN55022, FCC	3000 1500	89 5.0 Level Level B Level B Level B	1.5 5.2 0.98	VAC VAC % mA VDC fpmh fpmh
Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker and Fluctuation Immunity	Input to Output Input to Otassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Xgen Series datasheet Always ON. Current 250mA Failures per million hours at 25°C and full load powerMod See Designers' Manual. powerPac excludes fans powerPac Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 EN61000-4-2 EN61000-4-3	3000 1500	89 5.0 Level B Level B Compliant Compliant	1.5 5.2 0.98	VAC VAC % mA VDC fpmh fpmh
Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker and Fluctuation Immunity Electrostatic Discharge Radiated RFI Fast Transients - burst	Input to Output Input to Othassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Xgen Series datasheet Always ON. Current 250mA Failures per million hours at 25°C and full load powerMod See Designers' Manual. powerPac excludes fans powerPac Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 EN61000-4-2 EN61000-4-3 EN61000-4-4	3000 1500	89 5.0 Level B Level B Level B Compliant Compliant Level 4 Level 3 Level 4	1.5 5.2 0.98	VAC VAC % mA VDC fpmh fpmh
Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker and Fluctuation Immunity Electrostatic Discharge Radiated RFI Fast Transients - burst Input Line Surges	Input to Output Input to Othassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Xgen Series datasheet Always ON. Current 250mA Failures per million hours at 25°C and full load powerMod See Designers' Manual. powerPac excludes fans powerPac Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 EN61000-4-2 EN61000-4-3 EN61000-4-5	3000 1500	89 5.0 Level B Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4	1.5 5.2 0.98	VAC VAC % mA VDC fpmh fpmh Units
Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker and Fluctuation Immunity Electrostatic Discharge Radiated RFI Fast Transients - burst Input Line Surges Conducted RFI	Input to Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Xgen Series datasheet Always ON. Current 250mA Failures per million hours at 25°C and full load powerMod See Designers' Manual. powerPac excludes fans Standard Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 EN61000-3-3 EN61000-4-2 EN61000-4-3 EN61000-4-5 EN61000-4-6	3000 1500	89 5.0 Level B Level B Level B Compliant Compliant Level 4 Level 4 Level 3 Level 4 Class 4 10	1.5 5.2 0.98	VAC VAC % mA VDC fpmh fpmh fpmh Units
Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker and Fluctuation Immunity Electrostatic Discharge Radiated RFI Fast Transients - burst Input Line Surges	Input to Output Input to Othassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Xgen Series datasheet Always ON. Current 250mA Failures per million hours at 25°C and full load powerMod See Designers' Manual. powerPac excludes fans powerPac Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 EN61000-4-2 EN61000-4-3 EN61000-4-5	3000 1500	89 5.0 Level B Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4	1.5 5.2 0.98	VAC VAC % mA VDC fpmh fpmh Units
Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker and Fluctuation Immunity Electrostatic Discharge Radiated RFI Fast Transients - burst Input Line Surges Conducted RFI Voltage Dips	Input to Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Xgen Series datasheet Always ON. Current 250mA Failures per million hours at 25°C and full load powerMod See Designers' Manual. powerPac excludes fans Standard Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 EN61000-3-3 EN61000-4-2 EN61000-4-3 EN61000-4-5 EN61000-4-6	3000 1500	89 5.0 Level B Level B Level B Compliant Compliant Level 4 Level 4 Level 3 Level 4 Class 4 10	1.5 5.2 0.98	VAC VAC % mA VDC fpmh fpmh fpmh Units
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Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker and Fluctuation Immunity Electrostatic Discharge Radiated RFI Fast Transients - burst Input Line Surges Conducted RFI Voltage Dips ENVIRONMENTAL Parameter	Input to Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Xgen Series datasheet Always ON. Current 250mA Failures per million hours at 25°C and full load powerMod See Designers' Manual. powerPac excludes fans Standard Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 EN61000-3-3 EN61000-4-2 EN61000-4-3 EN61000-4-5 EN61000-4-6	3000 1500 4.8 4.8	89 5.0 Level B Level B Level B Compliant Compliant Level 4 Level 4 Level 3 Level 4 Class 4 10	1.5 5.2 0.98 0.92	VAC VAC VAC % mA VDC fpmh fpmh fpmh fpmh fpmh fpmh fpmh fpmh
Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker and Fluctuation Immunity Electrostatic Discharge Radiated RFI Fast Transients - burst Input Line Surges Conducted RFI Voltage Dips ENVIRONMENTAL Parameter Operating Temperature	Input to Output Input to Otassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Xgen Series datasheet Always ON. Current 250mA Failures per million hours at 25°C and full load powerMod See Designers' Manual. powerPac excludes fans Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 EN61000-4-2 EN61000-4-3 EN61000-4-5 EN61000-4-6 EN61000-4-11 (EN55024)	3000 1500 4.8 4.8 4.8	89 5.0 Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	1.5 5.2 0.98 0.92	VAC VAC VAC % mA VDC fpmh fpmh fpmh Units
Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker and Fluctuation Immunity Electrostatic Discharge Radiated RFI Fast Transients - burst Input Line Surges Conducted RFI Voltage Dips ENVIRONMENTAL Parameter Operating Temperature Storage Temperature	Input to Output Input to Othassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Xgen Series datasheet Always ON. Current 250mA Failures per million hours at 25°C and full load powerMod See Designers' Manual. powerPac excludes fans powerPac Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 EN61000-4-2 EN61000-4-2 EN61000-4-5 EN61000-4-5 EN61000-4-6 EN61000-4-11 (EN55024) Conditions/Description	3000 1500 4.8 4.8	89 5.0 Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	1.5 5.2 0.98 0.92	VAC VAC VAC % mA VDC fpmh fpmh fpmh fpmh fpmh fpmh fpmh fpmh
Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker and Fluctuation Immunity Electrostatic Discharge Radiated RFI Fast Transients - burst Input Line Surges Conducted RFI Voltage Dips ENVIRONMENTAL Parameter Operating Temperature Storage Temperature Derating	Input to Output Input to Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Xgen Series datasheet Always ON. Current 250mA Failures per million hours at 25°C and full load powerMod See Designers' Manual. powerPac excludes fans powerPac Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 EN61000-3-2 EN61000-4-2 EN61000-4-2 EN61000-4-5 EN61000-4-5 EN61000-4-6 EN61000-4-11 (EN55024) Conditions/Description	3000 1500 4.8 4.8	89 5.0 Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	1.5 5.2 0.98 0.92	VAC VAC VAC % mA VDC fpmh fpmh fpmh fpmh fpmh fpmh fpmh fpmh
Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker and Fluctuation Immunity Electrostatic Discharge Radiated RFI Fast Transients - burst Input Line Surges Conducted RFI Voltage Dips ENVIRONMENTAL Parameter Operating Temperature Storage Temperature Derating Relative Humidity	Input to Output Input to Othassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Xgen Series datasheet Always ON. Current 250mA Failures per million hours at 25°C and full load powerMod See Designers' Manual. powerPac excludes fans powerPac Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 EN61000-4-2 EN61000-4-3 EN61000-4-3 EN61000-4-5 EN61000-4-6 EN61000-4-6 EN61000-4-11 (EN55024) Conditions/Description	3000 1500 4.8 4.8 4.8	89 5.0 Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	1.5 5.2 0.98 0.92	VAC VAC VAC VDC fpmh fpmh Units VDC
Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker and Fluctuation Immunity Electrostatic Discharge Radiated RFI Fast Transients - burst Input Line Surges Conducted RFI Voltage Dips ENVIRONMENTAL Parameter Operating Temperature Storage Temperature Derating	Input to Output Input to Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Xgen Series datasheet Always ON. Current 250mA Failures per million hours at 25°C and full load powerMod See Designers' Manual. powerPac excludes fans powerPac Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 EN61000-3-2 EN61000-4-2 EN61000-4-2 EN61000-4-5 EN61000-4-5 EN61000-4-6 EN61000-4-11 (EN55024) Conditions/Description	3000 1500 4.8 4.8	89 5.0 Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	1.5 5.2 0.98 0.92	VAC VAC VAC % mA VDC fpmh fpmh fpmh fpmh fpmh fpmh fpmh fpmh

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Slimline

NOTES 1. This product is not intended for use as a stand alone unit and must be installed by qualified personnel.

2. The specifications contained herein are believed to be correct at time of publication and are subject to change without notice.

3. All specifications at nominal input, full load, 25°C unless otherwise stated.

4. Vmin and Vmax voltages achieved when using Vtrim function on powerMod or the on board potentiometer. Vtrim is the lowest voltage that can be achieved using Vtrim pin on powerMod. Vpot is the minimum voltage that can be achieved using the on-baord potentiometer. See Xgen series Designers' Manual for full details on Vtrim and adjustment ranges.

5. When powering inductive or capacitive loads, it is recommended to use a blocking diode on the output.



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Xgen FLEXIBILITY and SIGNALS

Voltage Adjustment - Local

The multi-turn potentiometer that adjusts each output within the specified range may be accessed via the output panel of the power supply. Clockwise rotation increases output voltage. Resolution is approximately 5% of nominal voltage (Vnom) per turn.

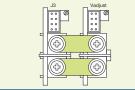
Voltage Adjustment - Remote (resistive / electronic)

The output voltage may be adjusted or trimmed by means of an external resistor or potentiometer network connected to the Vtrim pin. Linear Electronic programming is also possible and may be implemented according to the formula Vout = K Vcontrol. See Xgen series Designers' Manual for full details.

Paralleling

To achieve increased current capacity, simply parallel outputs using the standard parallel links. Excelsys 'wireless' sharing ensures that current hogging is not possible. To parallel connect outputs:

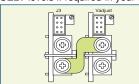
- 1. Switch on IShare switch to ON on powerMods.
- 2. Connect Negative parallel link.
- 3. Adjust output voltages of powerMods to within 5mV of eachother.
- 4. Connect Positive Parallel Link.



Parallel Links available to order. Part Number XP1

Seriesing

To achieve increased output voltages, simply series outputs using standard series links, paying attention to the requirements to maintain SELV levels if required in your system.



Series Links available. Part Number XS1

Remote Sensing

When the load is remote from the power supply, the remote sense pins may be used to compensate for drops in the power leads. Where the power cabling contributes significant dynamic impedance, see Xgen series Designers' Manual.

Bias Voltage

A SELV isolated 5V (always on) bias voltage rated at 250mA is provided on J2 to facilitate miscellaneous control functions.

Current Limit Adjustment

The output current limit setting may be adjusted (downwards only) by means of an external resistor connection to the I trim pin.

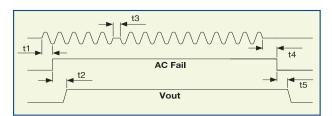
Inhibit/Enable

Inhibiting may be implemented either globally or on a per module basis (powerPac or powerMod inhibiting). Reverse logic (Enabling) may also be implemented, see Xgen series Designers' Manual.

AC Fail

3

Open collector signal indicating that the input voltage has failed or is less than 80Vac. This signal changes state giving 5mS of warning before loss of output regulation. See Xgen series Designers' Manual for full specifications.

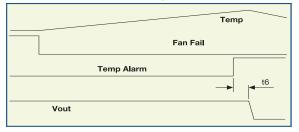


Temperature Alarm (Option 01)

Open collector signal indicating excessive powerPac temperatures due to fan failure or operation beyond ratings. This signal is activated at least 10ms prior to system shutdown.

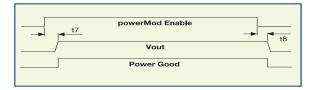
Fan Fail (Option 01)

Open collector signal indicating that at least one of the system fans have failed. This does not cause system shutdown.



Power Good

Opto-isolated output signal indicates that the powerMod is operating correctly and output voltage is within normal band. Opto transistor ON = Good.



Indication LEDs

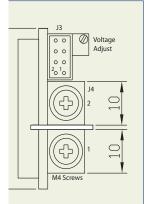
Each powerMod has a visual indicator to identify that it is operating within normal ratings. Very useful for system diagnosis.

Signal Connector Pinout

Pin	J2 (powerPac)	J3 (powerMod)	J3 (powerMod)
		Туре А	Туре В)
1	common	+sense	+pg (V2)
2	+5V bias	-sense	-pg (V2)
3		V trim	inhibit (V2)
4	ac fail	l trim	common (V2)
5	fan fail*	+inhibit/enable	+pg (V1)
6	global enable	-inhibit/enable	-pg (V1)
7	temp alarm*	+power good	inhibit (V1)
8	global inhibit	-power good	common (V1)

*Option 01 only

Signal Connector Pinout TYPE A Xg1-Xg7



J4 Connector : M4 Screw

J3 Connector Mating Connector Housing: Locking Molex 51110-0860 Non Locking Molex 51110-0850 Crimp Termnal: Molex p/n 50394

See Xgen series Designers' Manual for full signal connector details.

TYPE B: Xg8

12 \oslash V1 Adjust

0 0

0 0 0 V2 Adjust

2 1

04

03 O 2 0 J4Connector : Camden 9200/4A

J3 Connector Mating Connecto

Housing: Locking Molex 51110-0860 Non Locking Molex 51110-0850 Crimp Termnal: Molex p/n 50394



powerPacs (4slot package, 89mm wide)

	Family	MODEL	Watts		Family	MODEL	Watts
73	Xlite	XLA	200W		Xmite	XMA	200W
idari		XLB	400W	Med		XMB	400W
Standard		XLC	600W	ž		XMC	600W
		XLD	750W			XMD	750W
~ e	Xkite	ХКА	200W	. O _	Xrite	XRA	200W
Low Noise		ХКВ	400W	Low Noise Med		XRB	400W
		XKC	600W	~ ~		XRC	600W



Med

Voise

Xvite

Xzite

XVA XVB

XVC

XVD

XVE

XZA

XZB

XZC

powerPacs (6slot package, 127mm wide)

	Family	MODEL	Watts
	Xcite	XCA	400W
ard		XCB	700W
Standard		XCC	1000W
ΰ		XCD	1200W
		XCE	1340W
High Temp	Xhite	XHA	400W
Ц Н		ХНВ	600W
~ 0)	Xqite	XQA	400W
Low Noise		XQB	900W
2		XQC	1200W

powerMods (for use with all powerPac models)

MODEL	Vr Vtrim	nin ⁽⁴⁾ Vpot	Vnom	Vmax	• Imax	Watts
Xg1	1.0	1.5	2.5	3.6	50A	125W
Xg2	1.5	3.2	5.0	6.0	40A	200W
Xg3	4.0	6.0	12.0	15.0	20A	240W
Xg4	8.0	12.0	24.0	30.0	10A	240W
Xg5	8.0	24.0	48.0	58.0	6A	288W
Xg7	5.0	5.0	24.0	28.0	5A	120W
Xg8 V1 V2	5.0 5.0	5.0 5.0	24.0 24.0	28.0 28.0	3A 3A	72W 72W

Part Numbering

Configured Units may be specified and ordered using the part numbering system shown opposite. For example, part number XVC123400-00 specifies the following 1000W medical power supply.

• XVC-00 powerPac 1000W medically approved powerPac

- Xg1 2.5V @ 50A powerMod
- Xg2 5V @ 40A powerMod
- Xg3 12V @ 20A powerMod
- Xg4 24V @ 10A powerMod

Accessories .

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PowerMods can be parallel connected for higher current and series connected for higher voltages. Configured units will have parallel and series links fitted as required.



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400W

700W

1000W

1200W

1340W

400W

900W

1200W

