

Slimline Power Supply

User Configurable 1U size



PLUG & PLAY POWER next generation power source

FEATURES

- · Slimmest 400W configurable power
- 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
- 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

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.

powerMods

MODEL		Vnom			Watts
Xg1	1.5	2.5	3.6	50A	125W
Xg2	3.2	5.0	6.0	40A	200W
Xg3	6.0	12.0	15.0	20A	240W
Xg4	12.0	24.0	30.0	10A	240W
Xg5	28.0	48.0	58.0	6A	288W
Xg7	5.0	24.0	28.0	5A	120W
Xg8 v1 v2	5.0 5.0	24.0 24.0	28.0 28.0	3A 3A	72W 72W

powerPacs

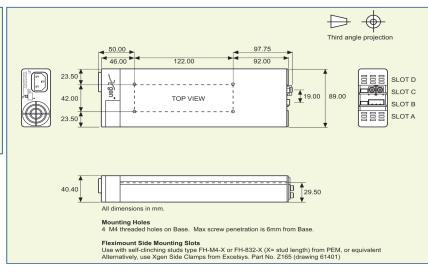
	MODEL	watts
Xlite	XLA	200W
	XLB	400W
	XLC	600W

EFFICIENCY (typical)

93 92 91 89 90 88 87 86 85 87 86 85 100 115 130 145 160 175 190 205 220 235 260 Line Voltage VAC

genseries

MECHANICAL SPECIFICATIONS



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

5INPUT					
Parameter	Conditions/Description	Min	Nom	Max	Units
Input Voltage Range	Universal Input	85		264	VAC
Innut Eroguana: Dance		120		380	VDC
Input Frequency Range Power Rating XLA		47		63 200	Hz W
XLB				400	W
XLC	Derate linearly from 600W at 180VAC to 400W at 85VAC			600	W
Input Current XLA	85VAC in 200W out		4.0	000	A
XLB	85VAC in 400W out		6.0		A
XLC	85VAC in 400W out		7.5		Α
Inrush Current	230VAC @ 25°C			50	Α
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		Α
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	%
Ripple and Noise	Settling Time 20MHz Bandwidth			250	μs % pk pk
Overvoltage Protection	Two-level. 1st level: Vset Tracking. 2nd level: Vmax (Latching)	110		1.0 125	% pk-pk %
Overcurrent Protection	Straight line with hiccup activation at <30% of Vnom	110		120	%
	See Designer's Manual for full details	110			
Remote Sense	Max. line drop compensation. (except Xg7, Xg8)			0.5	VDC
Overshoot Turn-on Delay	From AC In / Enable signal			2 300 / 30	% ms
Rise Time	Monotonic			5	ms
Hold-up Time	For nominal output voltages at full load	20		J	ms
Output Isolation	Output to Output / Output to Chassis	500 / 500			VDC
GENERAL					
	Conditions/Description	Miss	Nam	May	Hadisə
Develope		Min	Nom	Max	Units
Parameter	- ·	0000			
Parameter Isolation Voltage	Input to Output	3000			_
Isolation Voltage	Input to Output Input to Chassis	3000 1500	90		VAC
Isolation Voltage Efficiency	Input to Output Input to Chassis 230VAC, 400W @ 24V		89		_
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		89	1.5	VAC %
Isolation Voltage Efficiency	Input to Output Input to Chassis 230VAC, 400W @ 24V		89	1.5	VAC
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		89	1.5	VAC %
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	1500			VAC % mA
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	1500		5.1	VAC % mA VDC
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	1500	5.0	5.1 1.0	VAC % mA VDC fpmh fpmh
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	1500		5.1 1.0	VAC % mA VDC fpmh
Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions	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 See Designers' Manual. powerPac excludes fans Standard	1500	5.0	5.1 1.0	VAC % mA VDC fpmh fpmh
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	1500	5.0 Level	5.1 1.0	VAC % mA VDC fpmh fpmh
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	1500	5.0 Level B Level B	5.1 1.0	VAC % mA VDC fpmh fpmh
Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion	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	1500	5.0 Level B Level B Compliant	5.1 1.0	VAC % mA VDC fpmh fpmh
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 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	1500	5.0 Level B Level B	5.1 1.0	VAC % mA VDC fpmh fpmh
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 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	1500	Level B Level B Compliant Compliant	5.1 1.0	VAC % mA VDC fpmh fpmh
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 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 See Designers' Manual. powerPac excludes fans powerMod See Designers' Manual. powerPac excludes fans Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 EN61000-3-3 EN61000-4-2	1500	5.0 Level B Level B Compliant	5.1 1.0	VAC % mA VDC fpmh fpmh
Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker and Fluctuation Immunity Electrostatic Discharge	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 EN61000-3-3	1500	Level B Level B Compliant Compliant Level 4	5.1 1.0	VAC % mA VDC fpmh fpmh
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 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 EN61000-4-2 EN61000-4-2 EN61000-4-3	1500	Level B Level B Compliant Compliant Level 4 Level 3	5.1 1.0	VAC % mA VDC fpmh fpmh Units
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 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	1500	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4	5.1 1.0	VAC % mA VDC fpmh fpmh Units
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 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 EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5	1500	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4	5.1 1.0	VAC % mA VDC fpmh fpmh Units
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 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	1500	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4	5.1 1.0	VAC % mA VDC fpmh fpmh Units
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 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	1500	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4	5.1 1.0	VAC % mA VDC fpmh fpmh Units
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	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 EN61000-3-3 EN61000-4-2 EN61000-4-5 EN61000-4-6 EN61000-4-11 (EN55024)	4.9	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	5.1 1.0 0.5	VAC % mA VDC fpmh fpmh Units V/m ms
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 powerPac Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 EN61000-3-3 EN61000-4-2 EN61000-4-5 EN61000-4-6 EN61000-4-11 (EN55024)	1500 4.9	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	5.1 1.0 0.5	VAC % mA VDC fpmh fpmh Units V/m ms
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 Derating	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 EN61000-3-3 EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-5 EN61000-4-6 EN61000-4-11 (EN55024) Conditions/Description	Min -20 -40	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	5.1 1.0 0.5 Max +70 +85	VAC % mA VDC fpmh fpmh Units V/m ms Units C C
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 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 EN61000-3-3 EN61000-4-2 EN61000-4-3 EN61000-4-5 EN61000-4-6 EN61000-4-1 (EN55024) Conditions/Description	1500 4.9	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	5.1 1.0 0.5	VAC % mA VDC fpmh fpmh Units V/m ms
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 Derating	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 EN61000-3-3 EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-5 EN61000-4-6 EN61000-4-11 (EN55024) Conditions/Description	Min -20 -40	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	5.1 1.0 0.5 Max +70 +85	VAC % mA VDC fpmh fpmh Units V/m ms Units C C

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, $25\,^{\circ}\text{C}$ unless otherwise stated.

