200W-750W



Slimline Power Supply

User Configurable 1U Size

(E c 🔊 us

PLUG & PLAY POWER next generation power solution

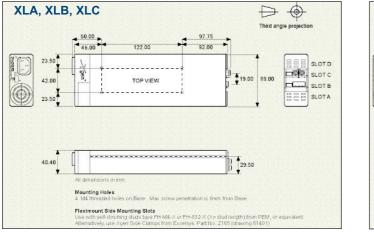
FEATURES & OPTIONS

- Ultra high efficiency, up to 89%
- Extra low profile: 1U height (40mm)
- Plug & Play Power allows fast custom configuration
- · Individual output control signals
- · All outputs fully floating
- · Series / Parallel of multiple outputs
- Few electrolytic capacitors (all long life)
- Visual LED indicators
- 5V bias standby voltage provided
- SEMI F47 Compliant
- Standard Xgen product options include: Conformal Coating, Low Acoustic Noise, Low Leakage Current, Extra Ruggedisation, Connector, Cabling & Mounting options, Thermal Signals and Reverse Fans. See Section 4.10 for more information

APPLICATIONS INCLUDE

- · Industrial machines
- Test and measurement
- Automation equipment
- Printing
- Telecommunications

MECHANICAL SPECIFICATIONS



C Genseries

The XL family of power supplies provides up to 750W in a slimline 1U package. Providing up to 8 isolated outputs, the XL family is the most flexible power supply in its class and brings affordable configurable power to the 200-750W market.

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

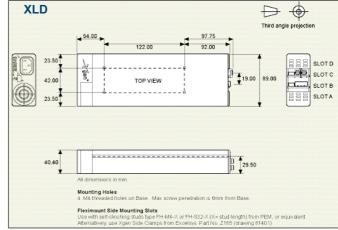
The XL family consists of 4 *powerPac* models in 200W, 400W, 600W and 750W power levels. Each *powerPac* model may be populated with up to 4 *powerMods* selected from the table of *powerMods* shown below.

All configurations carry full safety agency approvals, UL60950, EN60950 and are CE marked.

	powerMo	ds		powerPacs							
	MODEL	Vı	min	Vnom	Vmax	lmax	Watts		MODEL	Watts	
٦,		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	XL	XLC	600W	
	Xg3	4.0	6.0	12.0	15.0	20A	240W		XLD	750W	
	Xg4	8.0	12.0	24.0	30.0	10A	240W				
	Xg5	8.0	28.0	48.0	58.0	6A	288W				
	Xg7		5.0	24.0	28.0	5A	120W				
	Xg8 v1		5.0	24.0	28.0	ЗA	72W				
	V2		5.0	24.0	28.0	ЗA	72W				

excelsys

Note: See diagrams on pages 34-37



www.excelsys.com

200W-750W

Standard

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

Parameter	Conditions/Description	Min	Nom	Max	Units
nput Voltage Range	Universal Input 47-63Hz. Contact factory for 440Hz operation	85		264	VAC
		120		380	VDC
Power Rating	XLA:200W, XLB:400W, XLC:600W, XLD:750W				
	See Section 4.11 for line voltage deratings				
Input Current XLA	85VAC in 200W out		4.0		A
XLB	85VAC in 400W out		6.0		A
XLC	85VAC in 400W out		7.5		A
XLD	85VAC in 525W out		7.5		A
Inrush Current	230VAC, 25°C	05		50	A
Undervoltage Lockout	Shutdown	65		74	VAC
Fusing XLA XLB	250V 5 x 20mm 250V 5 x 20mm		F5A HRC F6.3A HRC		
XLC, XLD	250V 5 x 20mm		F8A HRC		
,	2300 3 X 201111		TOATING		
OUTPUT					
Parameter	Conditions/Description	Min	Nom	Max	Units
powerMod Power	As per powerMod table				
Output Adjustment Range	Manual: Multi-turn potentiometer. As per <i>powerMod</i> table Electronic: See Section 4.6				
Minimum Load			0		A
Line Regulation	For ±10% change from nominal line		0	±0.1	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
Load Regulation	For 25% to 75% load change			±0.1 ±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 100mV or 1.0% pk-pk				
Overvoltage Protection	1st level: Vset Tracking. 2nd level: Vmax (Latching)	110		125	%
Overcurrent Protection	Straight line with hiccup activation at <30% of Vnom	110		120	%
	See Section 4.6				
Remote Sense	Max. line drop compensation. (except Xg7, Xg8)			0.5	VDC
Overshoot				2	%
Turn-on Delay	From AC In and Global Enable / powerMod Enable XLA, XLB, XLC			700 / 6	ms
	From AC In and Global Enable / powerMod Enable XLD			1000 / 6	ms
Rise Time	Monotonic	00/45		5	ms
Hold-up Time	For nominal output voltages at full load XLA, XLB, XLC/XLD	20/15 500 / 500			ms VDC
Output lealetien					
Output Isolation	Output to Output / Output to Chassis	3007300			
GENERAL					
GENERAL Parameter	Conditions/Description	Min	Nom	Max	Units
GENERAL	Conditions/Description Input to Output	Min 3000	Nom	Мах	Units VAC
GENERAL Parameter Isolation Voltage	Conditions/Description Input to Output Input to Chassis	Min		Мах	Units VAC VAC
GENERAL Parameter Isolation Voltage Efficiency	Conditions/Description Input to Output Input to Chassis 230VAC, 750W @ 24V	Min 3000	Nom 89	Мах	Units VAC
GENERAL Parameter Isolation Voltage Efficiency Safety Agency Approvals	Conditions/Description Input to Output Input to Chassis 230VAC, 750W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875	Min 3000			Units VAC VAC %
GENERAL Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current	Conditions/Description Input to Output Input to Chassis 230VAC, 750W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C	Min 3000		Max 1.5	Units VAC VAC
GENERAL Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals	Conditions/Description Input to Output Input to Chassis 230VAC, 750W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Section 4.9	Min 3000 1500	89	1.5	Units VAC VAC % mA
GENERAL Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply	Conditions/Description Input to Output Input to Chassis 230VAC, 750W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Section 4.9 Always on. Current 250mA. 500mA option available	Min 3000		1.5	Units VAC VAC % mA VDC
GENERAL Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply	Conditions/Description Input to Output Input to Chassis 230VAC, 750W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Section 4.9 Always on. Current 250mA. 500mA option available Failures per million hours at 40°C and full load powerMod	Min 3000 1500	89	1.5	Units VAC VAC % mA
GENERAL Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability	Conditions/Description Input to Output Input to Chassis 230VAC, 750W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Section 4.9 Always on. Current 250mA. 500mA option available	Min 3000 1500	89	1.5 5.2 0.958	Units VAC VAC % mA VDC fpmh
GENERAL Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC	Conditions/Description Input to Output Input to Chassis 230VAC, 750W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Section 4.9 Always on. Current 250mA. 500mA option available Failures per million hours at 40°C and full load powerMod See Section 4.12. powerPac excludes fans powerPac	Min 3000 1500	89 5.0	1.5 5.2 0.958	Units VAC VAC % mA VDC fpmh fpmh
GENERAL Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter	Conditions/Description Input to Output Input to Chassis 230VAC, 750W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Section 4.9 Always on. Current 250mA. 500mA option available Failures per million hours at 40°C and full load powerMod	Min 3000 1500	89	1.5 5.2 0.958	Units VAC VAC % mA VDC fpmh fpmh
GENERAL Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions	Conditions/Description Input to Output Input to Chassis 230VAC, 750W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Section 4.9 Always on. Current 250mA. 500mA option available Failures per million hours at 40°C and full load powerMod See Section 4.12. powerPac excludes fans powerPac Standard	Min 3000 1500	89 5.0	1.5 5.2 0.958	Units VAC VAC % mA VDC fpmh fpmh
GENERAL Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted	Conditions/Description Input to Output Input to Chassis 230VAC, 750W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Section 4.9 Always on. Current 250mA. 500mA option available Failures per million hours at 40°C and full load powerMod See Section 4.12. powerPac excludes fans powerPac Standard EN55011, EN55022, FCC	Min 3000 1500	89 5.0 Level Level B	1.5 5.2 0.958	Units VAC VAC % mA VDC fpmh fpmh
GENERAL Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated	Conditions/Description Input to Output Input to Chassis 230VAC, 750W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Section 4.9 Always on. Current 250mA. 500mA option available Failures per million hours at 40°C and full load powerMod See Section 4.12. powerPac excludes fans powerPac Standard EN55011, EN55022, FCC EN55011, EN55022, FCC	Min 3000 1500	89 5.0 Level Level B Level B	1.5 5.2 0.958	Units VAC VAC % mA VDC fpmh fpmh
GENERAL Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion	Conditions/Description Input to Output Input to Chassis 230VAC, 750W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Section 4.9 Always on. Current 250mA. 500mA option available Failures per million hours at 40°C and full load powerMod See Section 4.12. powerPac excludes fans powerPac Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 Class A	Min 3000 1500	89 5.0 Level Level B Level B Compliant	1.5 5.2 0.958	Units VAC VAC % mA VDC fpmh fpmh
GENERAL Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation	Conditions/Description Input to Output Input to Chassis 230VAC, 750W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Section 4.9 Always on. Current 250mA. 500mA option available Failures per million hours at 40°C and full load powerMod See Section 4.12. powerPac excludes fans powerPac Standard EN55011, EN55022, FCC EN55011, EN55022, FCC	Min 3000 1500	89 5.0 Level Level B Level B	1.5 5.2 0.958	Units VAC VAC % mA VDC fpmh fpmh
GENERAL Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation Immunity	Conditions/Description Input to Output Input to Chassis 230VAC, 750W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Section 4.9 Always on. Current 250mA. 500mA option available Failures per million hours at 40°C and full load powerMod See Section 4.12. powerPac excludes fans powerPac Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 Class A	Min 3000 1500	89 5.0 Level Level B Level B Compliant	1.5 5.2 0.958	Units VAC VAC % mA VDC fpmh fpmh
GENERAL Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation Immunity Electrostatic Discharge	Conditions/Description Input to Output Input to Chassis 230VAC, 750W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Section 4.9 Always on. Current 250mA. 500mA option available Failures per million hours at 40°C and full load powerMod See Section 4.12. powerPac excludes fans powerPac Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 Class A EN61000-3-3	Min 3000 1500	89 5.0 Level Level B Level B Compliant Compliant	1.5 5.2 0.958	Units VAC VAC % mA VDC fpmh fpmh
GENERAL Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation Immunity Electrostatic Discharge Radiated Immunity	Conditions/Description Input to Output Input to Chassis 230VAC, 750W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Section 4.9 Always on. Current 250mA. 500mA option available Failures per million hours at 40°C and full load powerMod See Section 4.12. powerPac excludes fans powerPac Standard EN55011, EN55022, FCC EN61000-3-2 Class A EN61000-3-3 EN61000-4-2	Min 3000 1500	89 5.0 Level Level B Level B Compliant Compliant Level 2	1.5 5.2 0.958	Units VAC VAC % mA VDC fpmh fpmh
GENERAL Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation Immunity Electrostatic Discharge Radiated Immunity	Conditions/Description Input to Output Input to Chassis 230VAC, 750W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Section 4.9 Always on. Current 250mA. 500mA option available Failures per million hours at 40°C and full load powerMod See Section 4.12. powerPac excludes fans powerPac Standard EN55011, EN55022, FCC EN61000-3-2 Class A EN61000-4-2 EN61000-4-3	Min 3000 1500	89 5.0 Level Level B Level B Compliant Compliant Level 2	1.5 5.2 0.958	Units VAC VAC % mA VDC fpmh fpmh
GENERAL Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation Immunity Electrostatic Discharge Radiated Immunity Fast Transients-Burst	Conditions/Description Input to Output Input to Chassis 230VAC, 750W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Section 4.9 Always on. Current 250mA. 500mA option available Failures per million hours at 40°C and full load powerMod See Section 4.12. powerPac excludes fans powerPac Standard EN55011, EN55022, FCC EN61000-3-2 EN61000-3-3 EN61000-4-2 EN61000-4-3 EN61000-4-4	Min 3000 1500	89 5.0 Level Level B Level B Compliant Compliant Level 2	1.5 5.2 0.958	Units VAC VAC % mA VDC fpmh
GENERAL Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation Immunity Electrostatic Discharge Radiated Immunity Fast Transients-Burst Input Line Surges Conducted Immunity	Conditions/Description Input to Output Input to Chassis 230VAC, 750W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Section 4.9 Always on. Current 250mA. 500mA option available Failures per million hours at 40°C and full load powerMod See Section 4.12. powerPac excludes fans powerPac Standard EN55011, EN55022, FCC EN61000-3-2 Class A EN61000-4-2 EN61000-4-2 EN61000-4-3 EN61000-4-3 EN61000-4-5 EN61000-4-6	Min 3000 1500	89 5.0 Level B Level B Compliant Compliant Level 2 Level 3 Level 3 Level 3	1.5 5.2 0.958	Units VAC VAC % mA VDC fpmh fpmh
GENERAL Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation Immunity Electrostatic Discharge Radiated Immunity Fast Transients-Burst Input Line Surges Conducted Immunity	Conditions/Description Input to Output Input to Chassis 230VAC, 750W @ 24V EN60950, UL60950, CSA22.2 No.950 See Section 4.9 Always on. Current 250mA. 500mA option available Failures per million hours at 40°C and full load powerMod See Section 4.12. powerPac excludes fans powerPac Standard EN55011, EN55022, FCC EN61000-3-2 Class A EN61000-4-2 EN61000-4-3 EN61000-4-3 EN61000-4-5	Min 3000 1500	89 5.0 Level Level B Level B Compliant Compliant Level 2 Level 3 Level 3	1.5 5.2 0.958	Units VAC VAC % mA VDC fpmh fpmh
GENERAL Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation Immunity Electrostatic Discharge Radiated Immunity Fast Transients-Burst Input Line Surges Conducted Immunity Voltage Dips	Conditions/Description Input to Output Input to Chassis 230VAC, 750W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Section 4.9 Always on. Current 250mA. 500mA option available Failures per million hours at 40°C and full load powerMod See Section 4.12. powerPac excludes fans powerPac Standard EN55011, EN55022, FCC EN61000-3-2 Class A EN61000-4-2 EN61000-4-2 EN61000-4-3 EN61000-4-3 EN61000-4-5 EN61000-4-6	Min 3000 1500	89 5.0 Level B Level B Compliant Compliant Level 2 Level 3 Level 3 Level 3	1.5 5.2 0.958	Units VAC VAC % mA VDC fpmh fpmh
GENERAL Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation Immunity Electrostatic Discharge Radiated Immunity Fast Transients-Burst Input Line Surges Conducted Immunity Voltage Dips ENVIRONMENTAL	Conditions/Description Input to Output Input to Chassis 230VAC, 750W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Section 4.9 Always on. Current 250mA. 500mA option available Failures per million hours at 40°C and full load powerMod See Section 4.12. powerPac excludes fans powerPac Standard EN55011, EN55022, FCC EN61000-3-2 Class A EN61000-4-2 EN61000-4-3 EN61000-4-3 EN61000-4-3 EN61000-4-5 EN61000-4-6 EN61000-4-11, SEMI F47 compliant. See note 8.	Min 3000 1500 4.8 4.8	89 5.0 Level B Level B Compliant Compliant Level 2 Level 3 Level 3 Level 3 Compliant	1.5 5.2 0.958 0.92	Units
GENERAL Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation Immunity Electrostatic Discharge Radiated Immunity Fast Transients-Burst Input Line Surges Conducted Immunity Voltage Dips ENVIRONMENTAL Parameter	Conditions/Description Input to Output Input to Chassis 230VAC, 750W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Section 4.9 Always on. Current 250mA. 500mA option available Failures per million hours at 40°C and full load powerMod See Section 4.12. powerPac excludes fans powerPac Standard EN55011, EN55022, FCC EN61000-3-2 Class A EN61000-4-2 EN61000-4-2 EN61000-4-3 EN61000-4-3 EN61000-4-5 EN61000-4-6	Min 3000 1500 4.8 4.8	89 5.0 Level B Level B Compliant Compliant Level 2 Level 3 Level 3 Level 3	1.5 5.2 0.958 0.92	Units
GENERAL Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation Immunity Electrostatic Discharge Radiated Immunity Fast Transients-Burst Input Line Surges Conducted Immunity Voltage Dips ENVIRONMENTAL Parameter Operating Temperature	Conditions/Description Input to Output Input to Chassis 230VAC, 750W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Section 4.9 Always on. Current 250mA. 500mA option available Failures per million hours at 40°C and full load powerMod See Section 4.12. powerPac excludes fans powerPac Standard EN55011, EN55022, FCC EN61000-3-2 Class A EN61000-4-2 EN61000-4-3 EN61000-4-3 EN61000-4-3 EN61000-4-5 EN61000-4-6 EN61000-4-11, SEMI F47 compliant. See note 8.	Min 3000 1500 4.8 4.8 4.8 4.8 4.8 4.8 4.8	89 5.0 Level B Level B Compliant Compliant Level 2 Level 3 Level 3 Level 3 Compliant	1.5 5.2 0.958 0.92	Units
GENERAL Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation Immunity Electrostatic Discharge Radiated Immunity Fast Transients-Burst Input Line Surges Conducted Immunity Voltage Dips ENVIRONMENTAL Parameter Operating Temperature Storage Temperature	Conditions/Description Input to Output Input to Chassis 230VAC, 750W @ 24V EN60950, UL60950, CSA22.2 No.950 See Section 4.9 Always on. Current 250mA. 500mA option available Failures per million hours at 40°C and full load powerMod See Section 4.12. powerPac excludes fans powerPac Standard EN55011, EN55022, FCC EN61000-3-2 Class A EN61000-4-2 EN61000-4-3 EN61000-4-5 EN61000-4-6 EN61000-4-11, SEMI F47 compliant. See note 8.	Min 3000 1500 4.8 4.8	89 5.0 Level B Level B Compliant Compliant Level 2 Level 3 Level 3 Level 3 Compliant	1.5 5.2 0.958 0.92	Units
GENERAL Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation Immunity Electrostatic Discharge Radiated Immunity Fast Transients-Burst Input Line Surges Conducted Immunity Voltage Dips ENVIRONMENTAL Parameter Operating Temperature Derating	Conditions/Description Input to Output Input to Chassis 230VAC, 750W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Section 4.9 Always on. Current 250mA. 500mA option available Failures per million hours at 40°C and full load powerMod See Section 4.12. powerPac excludes fans powerPac Standard EN55011, EN55022, FCC EN61000-3-2 Class A EN61000-4-2 EN61000-4-3 EN61000-4-3 EN61000-4-5 EN61000-4-6 EN61000-4-6 EN61000-4-11, SEMI F47 compliant. See note 8. Conditions/Description	Min 3000 1500 4.8 4.8 	89 5.0 Level B Level B Compliant Compliant Level 2 Level 3 Level 3 Level 3 Compliant	1.5 5.2 0.958 0.92	Units
GENERAL Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation Immunity Electrostatic Discharge Radiated Immunity Fast Transients-Burst Input Line Surges Conducted Immunity Voltage Dips ENVIRONMENTAL	Conditions/Description Input to Output Input to Chassis 230VAC, 750W @ 24V EN60950, UL60950, CSA22.2 No.950 See Section 4.9 Always on. Current 250mA. 500mA option available Failures per million hours at 40°C and full load powerMod See Section 4.12. powerPac excludes fans powerPac Standard EN55011, EN55022, FCC EN61000-3-2 Class A EN61000-4-2 EN61000-4-3 EN61000-4-5 EN61000-4-6 EN61000-4-11, SEMI F47 compliant. See note 8.	Min 3000 1500 4.8 4.8 4.8 4.8 4.8 4.8 4.8	89 5.0 Level B Level B Compliant Compliant Level 2 Level 3 Level 3 Level 3 Compliant	1.5 5.2 0.958 0.92	Units

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. XLD: 800W peak for 1s; Duty cycle 7%. powerMod output power must not exceed normal ratings.

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

6. Conformal Coating option: See Sections 3.1 and 4.10 for details.

7. For section references above go to the Xgen Designers Manual.

8. SEMI F47 compliant at input voltages >160VAC. Consult Excelsys for details.



Xgen Flexabilty and Signals

For detailed infomation please refer to the Xgen Designers' Manual which is available on-line or contact Excelsys.

Voltage Adjustment

Output Voltage can be adjusted in a number of ways:

- 1. On board multi turn potentiometer
- 2. Remote resistive programming (via Vtrim pin)
- 3. Remote voltage programming (via Vtrim pin)

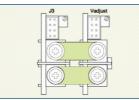
Current Limit Adjustment

Output current limit can be Straight line or Foldback and can be adjusted via Itrim pin.

Parallel Connection

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 each other. 4. Connect Positive Parallel Link.

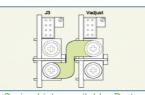


Parallel Links available to order. Part Number XP1

*Certain applications may require military grade potentiometer or fixed resistors - consult Excelsvs for details

Series Connection

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

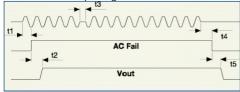
A SELV isolated bias (always on) voltage of 5V @ 250mA (30mA on XCE and XVE models) is provided on J2 pin 2 relative to J2 pin 1 (common) and may be used for miscellaneous control functions. 5V @ 500mA available on request. .

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.

AC Fail

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



Power Good

Opto-Isolated output signal indicates that the powerMod is operating correctly and output voltage is within normal band.

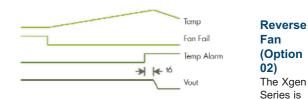


Temperature Alarm (Option 01)

Open collector signal indicating excessive temperature has been reached 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 powerPacs fans has failed. This does not cause power supply shutdown. The power supply will continue to operate until 10ms after the temperature alarm signal is generated.



available with reverse air flow direction. Contact Excelsys for derating details.

Ultra Low Leakage Current (Option 04)

The Xgen is availabe with the option of Ultra Low Earth Leakage Current of <150µA and is approved to EN60601-1 and UL60601-1 2nd and 3rd Editions

Conformal Coating (Option C)

The Xgen is available with conformal coating for harsh environments and MIL-COTs applications.

Ruggedised Option (Option R)

The Xgen is available with extra ruggedisation for applications that are subject to extremes in shock and vibration.

Input Cable Option (Option D)

3 Wire input mains cable. Input cables are 300mm in length and come supplied with fast connectors.

Signal Connector Pinout

Pin	J2 (powerPac)	J3 (<i>powerMod</i>) Xg1-Xg5 Type A	J3 (<i>powerMod)</i> Xg7 Type A	J3 (<i>powerMod)</i> Xg8 Type B						
1	common	+sense	not used	-pg (V2)						
2	+5V bias	-sense	not used	+pg (V2)						
3		V trim	not used	inhibit (V2)						
4	ac fail	l trim	common	common (V2)						
5	fan fail*	+inhibit/enable	-pg	-pg (V1)						
6	global enable	-inhibit/enable	+pg	+pg (V1)						
7	temp alarm*	+power good	inhibit	inhibit (V1)						
8	global inhibit	-power good	common	common(V1)						
*Op	Option 01 only									

TYPE A Xg1-Xg7

TYPE B : Xg8

0 V1 Adjust

On V2 Adjust

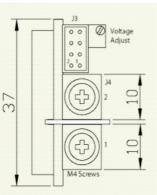
0 0

0 0 206

04

0

02



J4 Connector : M4 Screw

0850

Mating Connector Locking Molex 51110-0860 Non Locking Molex 51110-Mating Co Housing:

Crimp Terminal: Molex p/n 50394

0 J4Connector : Camden 9200/4A ctor Mating Co

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

Xgen Product Selector

The Xgen series of user configurable power supplies with its unique plug and play architecture allows system designers to define and build 'instant' custom power solutions with industry leading 17W/in³ power density and up to 90% efficiency.

Xgen powerPacs

The application specific 4 slot and 6 slot *powerPacs* provide up to 12 isolated DC outputs from 200W up to 1340W. The table below summarises the *powerPacs* by application and power level. Please refer to the specific product datasheets for full specifications.

Application	Slots	200W	400W	600W	700W	750W	800W	900W	1000W	1200W	1340W
Standard	4 Slot	XLA	XLB	XLC		XLD					
	6 Slot		XCA		XCB				XCC	XCD	XCE
Medical	4 Slot	XMA	XMB	XMC		XMD					
	6 Slot		XVA		XVB				XVC	XVD	XVD
Low Noise Standard	4 Slot	XKA	XKB	XKC							
	6 Slot		XQA					XQB		XQC	
Low Noise Medical	4 Slot	XRA	XRB	XRC							
	6 Slot		XZA					XZB		XZC	
Ultra Quiet Standard	4 Slot	XTA	XTB								
	6 Slot		XBA	XBB			XBC				
Ultra Quiet Medical	4 Slot	XNA	XNB								
	6 Slot		XWA	XWB			XWC				
Hi-Temp	6 Slot		XHA	XHB							

Xgen powerMods

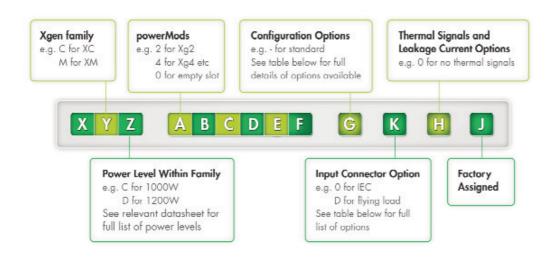
High Efficiency Plug and Play DC output modules to provide a wide range of DC output voltages from 1.0V up to 58.0V.

MODEL	Vmin		Vnom	Vmax	Imax	Watts
	Vtrim	Vpot				
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	24.0	28.0	5A	120W
Xg8 v1		5.0	24.0	28.0	3A	72W
V2		5.0	24.0	28.0	ЗA	72W

Standard Xgen product options include: Conformal Coating, Low Acoustic Noise, Low Leakage Current, Extra Ruggedisation, Connector, Cabling & Mounting options, Thermal Signals and Reverse Fans.



Configuring your Xgen



Example: XVD234580-D4A contains XVD *powerPac:* 1200W medically approved

Powermods Xg2:5V/40A Xg3:12V/20A Xg4:24V/10A Xg5:48V/6A Xg8:24V/3A, 24V/3A

Option D: Input Cable option Option 4: 150µA Leakage current option

A: Factory assigned unique identifier

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for excelsys manufacturer:

Other Similar products are found below :

 XGAC
 LXV75-042SW
 XCA-01
 XS1000-36N-000
 LXD150-0700SH
 XS1000-24N-000
 XS1000-48P-000A
 UX6-J0
 XG1C
 XKA-00
 XVD

 01
 XCA-00
 XG3C
 LXC150-1400SH
 XFAS01
 XLA-00
 LXC36-1050SW
 XG5C
 XLB-00
 CMG
 LXV36-024SW
 LXC85-1050SW
 LXC75

 0350SH
 XTB-01
 XLBC01
 XS500-36N-000
 XMC-01
 XCB-00
 XCC-00
 XCE-00
 XCDC01
 XCEC01
 XMC-01
 XVE-01

 XG7C
 XGD
 XVC-01
 XS500-48N-000
 XCC-01
 XLD-01
 XS500-24N-000
 XG2C
 XLB-01
 XLA-01
 XKC-00