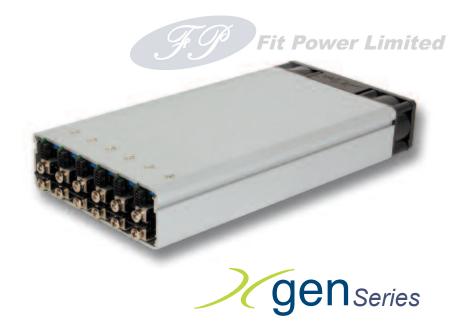


Medical Power Supply

Low Acoustic Noise 1U size

patents pending





PLUG & PLAY POWER next generation power source

FEATURES

- Low Acoustic Noise 59dBA
- EN60601-1 3rd Edition Approved
- Less than 600µA leakage current
- 4000VAC isolation
- 1.5V to 58V standard output voltages
- Extra low profile: 1U height (40mm)
- · Ultra high efficiency, up to 90%
- Plug & Play Power
 - allows fast custom configuration
 - allow easy logistics
- · Reduced system heat dissipation
- Series / Parallel of multiple outputs
- 5V bias standby voltage provided
- · Individual output control signals

APPLICATIONS INCLUDE

- · Clinical diagnostic equipment
- · Medical lasers
- · Dialysis equipment
- · For Standard applications see Xcite, Xqite

The Xzite family of low acoustic noise medically approved power supplies provides up to 1200W in an extremely compact 1U x 260 x 127mm package. Boasting industry leading power density of 15W/in³ and efficiencies of up to 90%, the Xzite family employs an innovative plug & play architecture that allows users to instantly configure a custom power solution in less than 5 minutes!

Ideal for acoustic sensitive medical applications the Xzite family provides unmatched efficiency and high power density, made possible through the combination of low loss technologies and the best field-proven technologies in planar magnetics and surface mount electronics.

The Xzite family consists of 3 powerPac models ranging in power levels from 400W to 1200W. Each model may be populated with up to 6 powerMods selected from the table of powerMods shown below.

All configurations carry full safety agency approvals, UL2601-1, EN60601-1 and are CE marked. For alternative power interfaces contact support@excelsys.com

powerMods

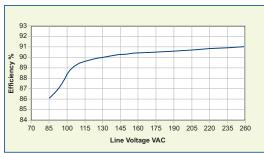
MODE	EL	Vmin	Vnom	Vmax	lmax	Watts
Xg1		1.5	2.5	3.6	50A	125W
Xg2		3.2	5.0	6.0	40A	200W
Xg3		6.0	12.0	15.0	20A	240W
Xg4		12.0	24.0	30.0	10A	240W
Xg5		28.0	48.0	58.0	6A	288W
Xg7		5.0	24.0	28.0	5A	120W
Xg8	V1	5.0	24.0	28.0	ЗА	72W
	V2	5.0	24.0	28.0	ЗА	72W

powerPacs

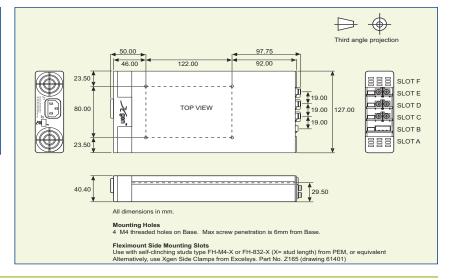
	MODEL	Watts
Ф	XZA	600W
ziţ	XZB	900W
×	XZC	1200W

Note: Please refer to the larger version of this diagram on page 42

EFFICIENCY (typical)



MECHANICAL SPECIFICATIONS





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

INPUT					
Parameter	Conditions/Description	Min	Nom	Max	Units
nput Voltage Range	Universal Input	85		264	VAC
		120		380	VDC
nput Frequency Range		47		63	Hz
Power Rating XZA	Denote linearly from 000M at 400M AC to 000M at 05MA			400	W
XZB XZC	Derate linearly from 900W at 120VAC to 600W at 85VAC			900	W
Input Current XZA	Derate linearly from 900W at 120VAC to 600W at 85VAC 85VAC in 400W out		7.5	1200	W A
XZB	85VAC in 600W out		11.5		A
XZC	85VAC in 600W out		11.5		A
Inrush Current	230VAC @ 25°C		11.5	25	A
Undervoltage Lockout	Shutdown	65		74	VAC
Fusing XZA	250V	00	F8A HRC	74	VAC
XZB	250V		F12A HRC		
XZC	250V		F12A HRC		
AZO .	2507		1 IZATIKO		
OUTPUT					
Parameter	Conditions/Description	Min	Nom	Max	Units
powerMod Power	As per powerMod table		Troin	Max	
Output Adjustment Range	Manual: Multi-turn potentiometer. As per <i>powerMod</i> table				
output Aujustinent Nange	Electronic: See Xgen Designers' Manual				
Minimum Load	2.550 one. Goo Agon Doolghold Manual		0		A
Line Regulation	For ±10% change from nominal line		-	±0.1	%
Load & Cross Regulation	For 25% to 75% load change			±0.1	%
Transient Response	For 25% to 75% load change Voltage Deviation			10.2	%
	Settling Time			250	μs
Ripple and Noise	20MHz Bandwidth			1.0	% pk-pk
Overvoltage Protection	1st level: Vset Tracking. 2nd level: Vmax (Latching)	110		125	% pk pk
Overcurrent Protection	Straight line with hiccup activation at <30% of Vnom	110		120	%
	See Designer's Manual for full details				.•
Remote Sense	Max. line drop compensation. (except Xg7, Xg8)			0.5	VDC
Overshoot	· · · · · · · · · · · · · · · · · · ·			2	%
Turn-on Delay	From AC In / Enable signal			600 / 30	ms
Rise Time	Monotonic			5	ms
					ms
Hold-up Time	For nominal output voltages at full load. XZA / XZB & XZC	20 / 15			1115
Hold-up Time Output Isolation	For nominal output voltages at full load. XZA / XZB & XZC Output to Output / Output to Chassis	20 / 15 500 / 500			VDC
Output Isolation					
Output Isolation GENERAL	Output to Output / Output to Chassis	500 / 500	Name	N.	VDC
Output Isolation GENERAL Parameter	Output to Output / Output to Chassis Conditions/Description	500 / 500 Min	Nom	Max	VDC Units
Output Isolation GENERAL Parameter	Output to Output / Output to Chassis Conditions/Description Input to Output	500 / 500 Min 4000	Nom	Max	VDC Units VAC
Output Isolation GENERAL Parameter Isolation Voltage	Output to Output / Output to Chassis Conditions/Description Input to Output Input to Chassis	500 / 500 Min		Max	VDC Units VAC VAC
Output Isolation GENERAL Parameter Isolation Voltage Efficiency	Output to Output / Output to Chassis Conditions/Description Input to Output Input to Chassis 230VAC, 1200W @ 24V	500 / 500 Min 4000	Nom	Max	VDC Units VAC
Output Isolation GENERAL Parameter Isolation Voltage Efficiency Safety Agency Approvals	Output to Output / Output to Chassis Conditions/Description Input to Output Input to Chassis 230VAC, 1200W @ 24V EN60601-1, UL2601-1, CSA601-1 UL File No. E230761	500 / 500 Min 4000			VDC Units VAC VAC %
Output Isolation GENERAL Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current	Output to Output / Output to Chassis Conditions/Description Input to Output Input to Chassis 230VAC, 1200W @ 24V EN60601-1, UL2601-1, CSA601-1 UL File No. E230761 250VAC, 60Hz, 25°C	500 / 500 Min 4000		Max 600	VDC Units VAC VAC
Output Isolation GENERAL Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals	Output to Output / Output to Chassis Conditions/Description Input to Output Input to Chassis 230VAC, 1200W @ 24V EN60601-1, UL2601-1, CSA601-1 UL File No. E230761 250VAC, 60Hz, 25°C See Xgen Series datasheet	500 / 500 Min 4000 1500	90	600	VDC Units VAC VAC %
Output Isolation GENERAL Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply	Output to Output / Output to Chassis Conditions/Description Input to Output Input to Chassis 230VAC, 1200W @ 24V EN60601-1, UL2601-1, CSA601-1 UL File No. E230761 250VAC, 60Hz, 25°C See Xgen Series datasheet Always ON. Current 250mA	500 / 500 Min 4000		600 5.2	Units VAC VAC %
Output Isolation GENERAL Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply	Output to Output / Output to Chassis Conditions/Description Input to Output Input to Chassis 230VAC, 1200W @ 24V EN60601-1, UL2601-1, CSA601-1 UL File No. E230761 250VAC, 60Hz, 25°C See Xgen Series datasheet Always ON. Current 250mA Failures per million hours at 25°C and full load powerMod	500 / 500 Min 4000 1500	90	600 5.2 0.98	VDC Units VAC VAC VAC % μA VDC fpmh
Output Isolation GENERAL Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability	Output to Output / Output to Chassis Conditions/Description Input to Output Input to Chassis 230VAC, 1200W @ 24V EN60601-1, UL2601-1, CSA601-1 UL File No. E230761 250VAC, 60Hz, 25°C See Xgen Series datasheet Always ON. Current 250mA	500 / 500 Min 4000 1500	90	600 5.2	Units VAC VAC %
Output Isolation GENERAL Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability	Output to Output / Output to Chassis Conditions/Description Input to Output Input to Chassis 230VAC, 1200W @ 24V EN60601-1, UL2601-1, CSA601-1 UL File No. E230761 250VAC, 60Hz, 25°C See Xgen Series datasheet Always ON. Current 250mA Failures per million hours at 25°C and full load powerMod	500 / 500 Min 4000 1500	90	600 5.2 0.98	VDC Units VAC VAC VAC % μA VDC fpmh
Output Isolation GENERAL Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability	Output to Output / Output to Chassis Conditions/Description Input to Output Input to Chassis 230VAC, 1200W @ 24V EN60601-1, UL2601-1, CSA601-1 UL File No. E230761 250VAC, 60Hz, 25°C See Xgen Series datasheet Always ON. Current 250mA Failures per million hours at 25°C and full load powerMod	500 / 500 Min 4000 1500	90	600 5.2 0.98	VDC Units VAC VAC VAC % μA VDC fpmh
Output Isolation GENERAL Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter	Output to Output / Output to Chassis Conditions/Description Input to Output Input to Chassis 230VAC, 1200W @ 24V EN60601-1, UL2601-1, CSA601-1 UL File No. E230761 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	500 / 500 Min 4000 1500	90	600 5.2 0.98	VDC Units VAC VAC % µA VDC fpmh fpmh
Output Isolation GENERAL Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions	Output to Output / Output to Chassis Conditions/Description Input to Output Input to Chassis 230VAC, 1200W @ 24V EN60601-1, UL2601-1, CSA601-1 UL File No. E230761 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	500 / 500 Min 4000 1500	90	600 5.2 0.98	VDC Units VAC VAC % µA VDC fpmh fpmh
Output Isolation GENERAL Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated	Output to Output / Output to Chassis Conditions/Description Input to Output Input to Chassis 230VAC, 1200W @ 24V EN60601-1, UL2601-1, CSA601-1 UL File No. E230761 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	500 / 500 Min 4000 1500	90 5.0	600 5.2 0.98	VDC Units VAC VAC % µA VDC fpmh fpmh
Output Isolation GENERAL Parameter solation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated	Output to Output / Output to Chassis Conditions/Description Input to Output Input to Chassis 230VAC, 1200W @ 24V EN60601-1, UL2601-1, CSA601-1 UL File No. E230761 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	500 / 500 Min 4000 1500	5.0 Level Level B	600 5.2 0.98	VDC Units VAC VAC % µA VDC fpmh fpmh
Output Isolation GENERAL Parameter solation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion	Output to Output / Output to Chassis Conditions/Description Input to Output Input to Chassis 230VAC, 1200W @ 24V EN60601-1, UL2601-1, CSA601-1 UL File No. E230761 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	500 / 500 Min 4000 1500	5.0 Level B Level B	600 5.2 0.98	VDC Units VAC VAC % µA VDC fpmh fpmh
Output Isolation GENERAL Parameter Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker and Fluctuation	Output to Output / Output to Chassis Conditions/Description Input to Output Input to Chassis 230VAC, 1200W @ 24V EN60601-1, UL2601-1, CSA601-1 UL File No. E230761 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	500 / 500 Min 4000 1500	5.0 Level B Level B Compliant Compliant	600 5.2 0.98	VDC Units VAC VAC % µA VDC fpmh fpmh
Output Isolation GENERAL 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	Output to Output / Output to Chassis Conditions/Description Input to Output Input to Chassis 230VAC, 1200W @ 24V EN60601-1, UL2601-1, CSA601-1 UL File No. E230761 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	500 / 500 Min 4000 1500	5.0 Level B Level B Compliant Compliant Level 4	600 5.2 0.98	VDC Units VAC VAC % µA VDC fpmh fpmh
Output Isolation GENERAL 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	Output to Output / Output to Chassis Conditions/Description Input to Output Input to Chassis 230VAC, 1200W @ 24V EN60601-1, UL2601-1, CSA601-1 UL File No. E230761 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	500 / 500 Min 4000 1500	5.0 Level B Level B Compliant Compliant Level 4 Level 3	600 5.2 0.98	VDC Units VAC VAC % µA VDC fpmh fpmh
Output Isolation GENERAL 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	Output to Output / Output to Chassis Conditions/Description Input to Output Input to Chassis 230VAC, 1200W @ 24V EN60601-1, UL2601-1, CSA601-1 UL File No. E230761 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	500 / 500 Min 4000 1500	5.0 Level B Level B Compliant Compliant Level 4 Level 3 Level 4	600 5.2 0.98	VDC Units VAC VAC % µA VDC fpmh fpmh
Output Isolation GENERAL Parameter solation 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	Output to Output / Output to Chassis Conditions/Description Input to Output Input to Chassis 230VAC, 1200W @ 24V EN60601-1, UL2601-1, CSA601-1 UL File No. E230761 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	500 / 500 Min 4000 1500	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4	600 5.2 0.98	VDC Units VAC VAC % μA VDC fpmh fpmh Units
Output Isolation GENERAL 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	Output to Output / Output to Chassis Conditions/Description Input to Output Input to Chassis 230VAC, 1200W @ 24V EN60601-1, UL2601-1, CSA601-1 UL File No. E230761 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 EN61000-4-6	500 / 500 Min 4000 1500	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10	600 5.2 0.98	VDC Units VAC VAC % μA VDC fpmh fpmh Units
Output Isolation GENERAL Parameter solation 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	Output to Output / Output to Chassis Conditions/Description Input to Output Input to Chassis 230VAC, 1200W @ 24V EN60601-1, UL2601-1, CSA601-1 UL File No. E230761 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	500 / 500 Min 4000 1500	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4	600 5.2 0.98	VDC Units VAC VAC % μA VDC fpmh fpmh Units
Output Isolation GENERAL Parameter solation 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	Output to Output / Output to Chassis Conditions/Description Input to Output Input to Chassis 230VAC, 1200W @ 24V EN60601-1, UL2601-1, CSA601-1 UL File No. E230761 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 EN61000-4-6	500 / 500 Min 4000 1500	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10	600 5.2 0.98	VDC Units VAC VAC % μA VDC fpmh fpmh Units
Output Isolation GENERAL 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	Output to Output / Output to Chassis Conditions/Description Input to Output Input to Chassis 230VAC, 1200W @ 24V EN60601-1, UL2601-1, CSA601-1 UL File No. E230761 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)	500 / 500 Min 4000 1500	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	600 5.2 0.98 0.92	Units VAC VAC % µA VDC fpmh fpmh Units
Output Isolation GENERAL 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	Output to Output / Output to Chassis Conditions/Description Input to Output Input to Chassis 230VAC, 1200W @ 24V EN60601-1, UL2601-1, CSA601-1 UL File No. E230761 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 EN61000-4-6	Min 4000 1500 4.8	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10	600 5.2 0.98 0.92	Units VAC VAC % UAC % VDC fpmh fpmh Units V/m ms
Output Isolation GENERAL 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	Output to Output / Output to Chassis Conditions/Description Input to Output Input to Chassis 230VAC, 1200W @ 24V EN60601-1, UL2601-1, CSA601-1 UL File No. E230761 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)	Min 4000 1500 4.8 Min -20	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	600 5.2 0.98 0.92	VDC Units VAC VAC % μA VDC fpmh fpmh Units V/m ms
Output Isolation GENERAL 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	Conditions/Description Input to Output Input to Output Input to Chassis 230VAC, 1200W @ 24V EN60601-1, UL2601-1, CSA601-1 UL File No. E230761 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 EN61000-4-6 EN61000-4-6 EN61000-4-11 (EN55024) Conditions/Description	Min 4000 1500 4.8	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	600 5.2 0.98 0.92	Units VAC VAC % UAC % VDC fpmh fpmh Units V/m ms
Output Isolation GENERAL 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	Conditions/Description Input to Output Input to Chassis 230VAC, 1200W @ 24V EN60601-1, UL2601-1, CSA601-1 UL File No. E230761 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 EN61000-4-3 EN61000-4-2 EN61000-4-5 EN61000-4-6 EN61000-4-6 EN61000-4-6 Conditions/Description	Min 4000 1500 4.8 Min -20	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	600 5.2 0.98 0.92	VDC Units VAC VAC % μA VDC fpmh fpmh Units V/m ms
Output Isolation GENERAL 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 Derating	Conditions/Description Input to Output Input to Output Input to Chassis 230VAC, 1200W @ 24V EN60601-1, UL2601-1, CSA601-1 UL File No. E230761 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 EN61000-4-3 EN61000-4-5 EN61000-4-6 EN61000-4-11 (EN55024) Conditions/Description 1.6% per °C above 40°C. See Designers Manual for full deratings (Section 12, pages 37-38)	Min 4000 1500 4.8 Min -20 -40	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	600 5.2 0.98 0.92 Max +70 +85	Units VAC VAC % PA VDC fpmh fpmh Units V/m ms Units °C °C
Output Isolation GENERAL 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	Output to Output / Output to Chassis Conditions/Description Input to Output Input to Chassis 230VAC, 1200W @ 24V EN60601-1, UL2601-1, CSA601-1 UL File No. E230761 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 EN61000-4-6 EN61000-4-11 (EN55024) Conditions/Description 1.6% per °C above 40°C. See Designers Manual for full deratings (Section 12, pages 37-38) Non-condensing	Min 4000 1500 4.8 Min -20	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	600 5.2 0.98 0.92	Units VAC VAC % UAC % VDC fpmh fpmh Units V/m ms Units *C *C
Output Isolation GENERAL 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	Conditions/Description Input to Output Input to Output Input to Chassis 230VAC, 1200W @ 24V EN60601-1, UL2601-1, CSA601-1 UL File No. E230761 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 EN61000-4-3 EN61000-4-5 EN61000-4-6 EN61000-4-11 (EN55024) Conditions/Description 1.6% per °C above 40°C. See Designers Manual for full deratings (Section 12, pages 37-38)	Min 4000 1500 4.8 Min -20 -40	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	600 5.2 0.98 0.92 Max +70 +85	Units VAC VAC % PA 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.
- The specifications contained herein are believed to be correct at time of publication and are subject to change without notice. All specifications at nominal input, full load, 25°C unless otherwise stated.
- See Xgen Designers Manual for detailed power ratings.
- When powering inductive or capacitive loads, it is recommended to use a blocking diode on the output.

Doc. 40042 rev. 09 10/10

