

# **Medical Power Supply**

User Configurable 1U size

patents pending





The Xmite 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. Simply select your appropriate powerPac and powerMods to get your instant custom power solution.

This slimline product boasts unrivalled power density, providing significant system space savings. Combined with ultra-high efficiencies, the Xmite family provides system designers with flexible instant solutions that significantly shorten system design-in time. For alternative power interfaces contact support@excelsys.com

# **PLUG & PLAY POWER** next generation power source

#### **FEATURES**

- EN60601-1 3rd Edition Approved
- Less than 600µA leakage current
- 4000VAC isolation
- Slimmest 750W configurable power
- 800W peak power
- Extra low profile: 1U height (40mm)
- · Ultra high efficiency, up to 89%
- Plug & Play Power
- allows fast custom configuration
- Few electrolytic capacitors (all long life)
- Series / Parallel of multiple outputs
- 5V bias standby voltage provided
- · Individual output control signals

#### APPLICATIONS INCLUDE

- · Radiological imaging
- · Clinical diagnostics
- Medical lasers
- · Clinical chemistry
- · For non-medical applications see Xlite

### powerMods

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	5.0	24.0	28.0	5A	120W
Xg8 v1	5.0 5.0	5.0 5.0	24.0 24.0	28.0 28.0	3A 3A	72W 72W

configurable power to the 200-750W medical market.

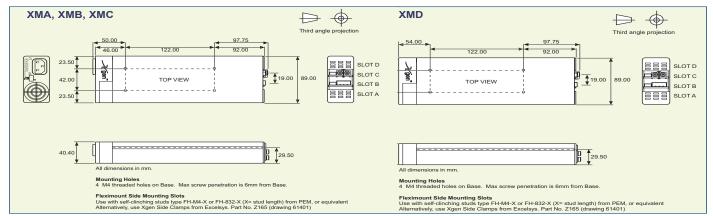
## powerPacs

	MODEL	Watts
4)	XMA	200W
ite	XMB	400W
Ϋ́	XMC	600W
	XMD	750W

Fit Power Limited

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

## **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 47-63Hz, Contact factory for 440Hz operation	85		264	VAC
ilput voltage Kalige	Offiversal input 47-03/12, Contact factory for 440/12 operation	120		380	VDC
Power Rating	XMA:200W, XMB:400W, XMC:600W, XMD:750W	120		300	VDC
ono. Rumg	See Xgen Designers' Manual for line voltage deratings				
Input Current XMA	85VAC in 200W out		4.0		Α
XMB	85VAC in 400W out		6.0		Α
XMC	85VAC in 400W out		7.5		Α
XMD	85VAC in 525W out		7.5		Α
Inrush Current	230VAC @ 25°C			50	Α
Undervoltage Lockout	Shutdown	65		74	VAC
Fusing XMA	250V 5 x 20mm		F5A HRC		.,
XMB	250V 5 x 20mm		F6.3A HRC		
XMC, XMD	250V 5 x 20mm		F8A HRC		
OUTPUT					
<u> </u>					
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	%
	Settling Time			250	μs
Ripple and Noise	20MHz Bandwidth			1.0	% pk-pl
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 Xgen Designers' 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 XMA, XMB, XMC			600 / 30	ms
•	From AC In / Enable signal XMD			1000/30	ms
Rise Time	Monotonic			5	ms
Hold-up Time	For nominal output voltages at full load XMA,XMB, XMC/XMD	20/15			ms
noid-up title					
Output Isolation	Output to Output / Output to Chassis	500 / 500			VDC
Output Isolation					VDC
Output Isolation GENERAL	Output to Output / Output to Chassis	500 / 500	N		
Output Isolation GENERAL Parameter	Output to Output / Output to Chassis  Conditions/Description	500 / 500 Min	Nom	Max	Units
Output Isolation GENERAL	Output to Output / Output to Chassis  Conditions/Description Input to Output	500 / 500 Min 4000	Nom	Max	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	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, 750W @ 24V	500 / 500 Min 4000	Nom	Max	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, 750W @ 24V  EN60601-1, UL2601-1, CSA601-1 UL File No. E230761	500 / 500 Min 4000			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, 750W @ 24V  EN60601-1, UL2601-1, CSA601-1 UL File No. E230761 250VAC, 60Hz, 25°C	500 / 500 Min 4000		Max 600	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, 750W @ 24V  EN60601-1, UL2601-1, CSA601-1 UL File No. E230761  250VAC, 60Hz, 25°C  See Xgen Series datasheet	Min 4000 1500	89	600	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, 750W @ 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	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, 750W @ 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	Min 4000 1500	89	600 5.2 0.98	Units VAC VAC %  µA  VDC fpmh
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, 750W @ 24V EN60601-1, UL2601-1, CSA601-1 UL File No. E230761 250VAC, 60Hz, 25°C See Xgen Series datasheet Always ON. Current 250mA	Min 4000 1500	89	600	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, 750W @ 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	Min 4000 1500	89	600 5.2 0.98	Units VAC VAC %  µA  VDC fpmh
Output Isolation  GENERAL  Parameter Isolation Voltage  Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability  EMC	Output to Output / Output to Chassis  Conditions/Description  Input to Output Input to Chassis  230VAC, 750W @ 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 Xgen Designers' Manual. powerPac excludes fans powerPac	Min 4000 1500	5.0	600 5.2 0.98	Units VAC VAC %
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, 750W @ 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	Min 4000 1500	89	600 5.2 0.98	Units VAC VAC %  µA  VDC 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, 750W @ 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 Xgen Designers' Manual. powerPac excludes fans powerPac  Standard	Min 4000 1500	5.0 Level	600 5.2 0.98	Units VAC VAC %
Output Isolation  GENERAL  Parameter Isolation Voltage  Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability  EMC  Parameter Emissions Conducted	Output to Output / Output to Chassis  Conditions/Description Input to Output Input to Chassis 230VAC, 750W @ 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 Xgen Designers' Manual. powerPac excludes fans powerPac  Standard  EN55011, EN55022, FCC	Min 4000 1500	5.0  Level Level B	600 5.2 0.98	Units VAC VAC %
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, 750W @ 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 Xgen Designers' Manual. powerPac excludes fans powerPac  Standard  EN55011, EN55022, FCC EN55011, EN55022, FCC	Min 4000 1500	5.0  Level  Level B  Level B	600 5.2 0.98	Units VAC VAC %
Output Isolation  GENERAL  Parameter Isolation 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, 750W @ 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 Xgen Designers' Manual. powerPac excludes fans powerPac  Standard  EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2	Min 4000 1500	5.0  Level  Level B  Level B  Compliant	600 5.2 0.98	Units VAC VAC %
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, 750W @ 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 Xgen Designers' Manual. powerPac excludes fans powerPac  Standard  EN55011, EN55022, FCC EN55011, EN55022, FCC	Min 4000 1500	5.0  Level  Level B  Level B	600 5.2 0.98	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, 750W @ 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 Xgen Designers' Manual. powerPac excludes fans powerPac  Standard  EN55011, EN55022, FCC  EN55011, EN55022, FCC  EN61000-3-2  EN61000-3-3	Min 4000 1500	5.0  Level B Level B Compliant Compliant	600 5.2 0.98	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, 750W @ 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 Xgen Designers' Manual. powerPac excludes fans powerPac  Standard  EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 EN61000-3-3  EN61000-4-2	Min 4000 1500	Level B Level B Compliant Compliant	600 5.2 0.98	Units VAC VAC %
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, 750W @ 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 Xgen 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	Min 4000 1500	Level B Level B Compliant Compliant Level 4 Level 3	600 5.2 0.98	Units VAC VAC %
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, 750W @ 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 Xgen 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	Min 4000 1500	Level B Level B Compliant Compliant Level 4 Level 3 Level 4	600 5.2 0.98	Units VAC VAC %
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	Output to Output / Output to Chassis  Conditions/Description Input to Output Input to Chassis 230VAC, 750W @ 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 Xgen 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	Min 4000 1500	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4	600 5.2 0.98	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, 750W @ 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 Xgen 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	Min 4000 1500	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10	600 5.2 0.98	Units VAC VAC %
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, 750W @ 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 Xgen 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	Min 4000 1500	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4	600 5.2 0.98	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	Output to Output / Output to Chassis  Conditions/Description Input to Output Input to Chassis 230VAC, 750W @ 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 Xgen 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	Min 4000 1500	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10	600 5.2 0.98	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, 750W @ 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 Xgen Designers' Manual. powerPac excludes fans powerPac  Standard  EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 EN61000-3-2 EN61000-4-2 EN61000-4-5 EN61000-4-6 EN61000-4-11 (EN55024)	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 %
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, 750W @ 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 Xgen 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	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 %   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	Output to Output / Output to Chassis  Conditions/Description Input to Output Input to Chassis 230VAC, 750W @ 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 Xgen Designers' Manual. powerPac excludes fans powerPac  Standard  EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 EN61000-3-2 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	Units VAC VAC %
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	Output to Output / Output to Chassis  Conditions/Description Input to Output Input to Chassis 230VAC, 750W @ 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 Xgen 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 %   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 Imput Line Surges Conducted RFI Voltage Dips ENVIRONMENTAL Parameter Operating Temperature Storage Temperature	Output to Output / Output to Chassis  Conditions/Description Input to Output Input to Chassis 230VAC, 750W @ 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 Xgen 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 EN61000-4-6 EN61000-4-11 (EN55024)  Conditions/Description  See Xgen Designers' Manual for full temperature deratings	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 %
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	Output to Output / Output to Chassis  Conditions/Description Input to Output Input to Chassis 230VAC, 750W @ 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 Xgen 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 EN61000-4-6 EN61000-4-11 (EN55024)  Conditions/Description  See Xgen Designers' Manual for full temperature 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 %
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 Imput Line Surges Conducted RFI Voltage Dips ENVIRONMENTAL Parameter Operating Temperature Storage Temperature	Output to Output / Output to Chassis  Conditions/Description Input to Output Input to Chassis 230VAC, 750W @ 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 Xgen 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 EN61000-4-6 EN61000-4-11 (EN55024)  Conditions/Description  See Xgen Designers' Manual for full temperature deratings	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 %

# **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. XMD: 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.

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