Low Noise Medically Approved Power Supply 200W-400W



Medical Power Supply

Low Noise 1U size

PLUG & PLAY POWER next generation power source

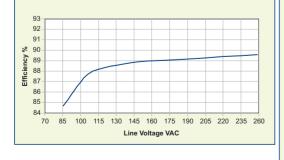
FEATURES

- Low Acoustic Noise 54dBA
- EN60601-1 and UL2601-1 approved
- Less than 300µA leakage current
- 4000VAC isolation
- Slimmest 600W configurable power
- Extra low profile: 1U height (40mm)
- 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)
- Series / Parallel of multiple outputs
- 5V bias standby voltage provided
- Individual output control signals

APPLICATIONS INCLUDE

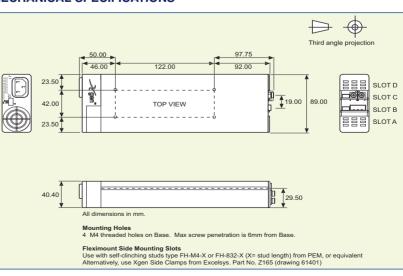
- Radiological imaging
- Clinical diagnostics
- Medical lasers
- Clinical chemistry
- For non-medical applications see Xkite

EFFICIENCY (typical)





MECHANICAL SPECIFICATIONS



patents pending

The X_{rite} family of low noise medically approved power supplies provides up to 400W in a slimline 1U x 260 x 89mm package. Ideal for acoustoc sensitive medical equipment, the X_{rite} family carries full safety agency approvals to EN60601-1 and UL2601-1, meeting the stringent creepage requirements in this compact package. Providing up to 8 isolated outputs, the X_{rite} family is the most flexible power supply in its class and brings affordable configurable power to the 200-400W medical market.

The X_{rite} family consists of 2 *powerPac* models in 200W and 400W 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 X_{rite} family provides system designers with flexible instant solutions that significantly shorten system design-in time. For alternative power interfaces contact support@excelsys.com

powerMods								
MODEL	Vmin	Vnom	Vmax	Imax	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			

powerF	acs	
	MODEL	Watts
ite	XRA	200W
Xri	XRB	400W

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200W/400W Low Noise Medically Approved Power Supply

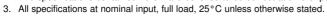
SPECIFICATION applies to configured units consisting of powerMods modules plugged into the appropriate powerPac

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INPUT Parameter	Conditions/Description	Min	Nom	Max	Units
Input Voltage Range	Universal Input	85	NOIT	264	VAC
input voltage hange	Universal input	120		380	VAC
Input Frequency Range		47		63	Hz
Power Rating XRA				200	W
XRB				400	Ŵ
74.12				100	
Input Current XRA	85VAC in 200W out		4.5		Α
XRB	85VAC in 400W out		5.5		Α
Inrush Current	230VAC @ 25°C			50	Α
Undervoltage Lockout	Shutdown	65		74	VAC
Fusing XRA	250V 5 x 20mm		F5A HRC		
XRB	250V 5 x 20mm		F6.3A HRC		
OUTPUT					
Parameter	Conditions/Description	Min	Nom	Max	Units
powerMod Power	As per <i>powerMod</i> table				
Output Adjustment Range	Manual: Multi-turn potentiometer. As per <i>powerMod</i> 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
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 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			300 / 30	ms
Rise Time	Monotonic			5	ms
Hold-up Time	For nominal output voltages at full load	20			ms
Output Isolation	Output to Output / Output to Chassis	500 / 500			VDC
GENERAL					
Parameter	Conditions/Description	Min	Nom	Max	Units
		4000			VAC
Isolation Voltage	Input to Output				
Isolation Voltage	Input to Output Input to Chassis	1500			VAC
Isolation Voltage Efficiency			89		VAC %
Efficiency	Input to Chassis		89		_
Efficiency Safety Agency Approvals	Input to Chassis 230VAC, 400W @ 24V		89	300	_
Efficiency Safety Agency Approvals Leakage Current Signals	Input to Chassis 230VAC, 400W @ 24V EN60601-1, UL2601-1, CSA601-1 UL File No. E230761 250VAC, 60Hz, 25°C See Xgen Series datasheet		89	300	%
Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply	Input to Chassis 230VAC, 400W @ 24V EN60601-1, UL2601-1, CSA601-1 UL File No. E230761 250VAC, 60Hz, 25°C See Xgen Series datasheet Always ON. Current 250mA		89 5.0	5.1	%
Efficiency Safety Agency Approvals Leakage Current Signals	Input to Chassis 230VAC, 400W @ 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	1500		5.1 1.0	% μA VDC fpmh
Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply	Input to Chassis 230VAC, 400W @ 24V EN60601-1, UL2601-1, CSA601-1 UL File No. E230761 250VAC, 60Hz, 25°C See Xgen Series datasheet Always ON. Current 250mA	1500		5.1	% μA VDC fpmh
Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability	Input to Chassis 230VAC, 400W @ 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	1500		5.1 1.0	% μA
Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC	Input to Chassis 230VAC, 400W @ 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	1500	5.0	5.1 1.0	% μA VDC fpmh fpmh
Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter	Input to Chassis 230VAC, 400W @ 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	1500		5.1 1.0	% μA VDC fpmh fpmh
Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions	Input to Chassis 230VAC, 400W @ 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	1500	5.0	5.1 1.0	% μA VDC fpmh
Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted	Input to Chassis 230VAC, 400W @ 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	1500	5.0 Level	5.1 1.0	% μA VDC fpmh fpmh
Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated	Input to Chassis 230VAC, 400W @ 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	1500	5.0 Level Level B Level B	5.1 1.0	% μA VDC fpmh fpmh
Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion	Input to Chassis 230VAC, 400W @ 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	1500	5.0 5.0 Level B Level B Level B Compliant	5.1 1.0	% μA 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 Chassis 230VAC, 400W @ 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	1500	5.0 Level Level B Level B	5.1 1.0	% μA VDC fpmh fpmh
Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker and Fluctuation Immunity	Input to Chassis 230VAC, 400W @ 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	1500	5.0 5.0 Level B Level B Level B Compliant Compliant	5.1 1.0	% μA 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 Chassis 230VAC, 400W @ 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	1500	5.0 5.0 Level B Level B Compliant Compliant Level 4	5.1 1.0	% μA 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	Input to Chassis 230VAC, 400W @ 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	1500	5.0 5.0 Level B Level B Level B Compliant Compliant	5.1 1.0	% μA 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 to Chassis 230VAC, 400W @ 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 EN61000-3-2 EN61000-3-3 EN61000-4-2 EN61000-4-3	1500	5.0 5.0 Level B Level B Compliant Compliant Compliant Level 4 Level 3	5.1 1.0	% μA 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 Chassis 230VAC, 400W @ 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	1500	5.0 5.0 Level B Level B Level B Compliant Compliant Level 4 Level 3 Level 4	5.1 1.0	% μA 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 Conducted RFI	Input to Chassis 230VAC, 400W @ 24V EN60601-1, UL2601-1, CSA601-1 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 EN61000-3-2 EN61000-4-2 EN61000-4-3 EN61000-4-5	1500	5.0 5.0 Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4	5.1 1.0	% μA 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 Conducted RFI Voltage Dips	Input to Chassis 230VAC, 400W @ 24V EN60601-1, UL2601-1, CSA601-1 250VAC, 60Hz, 25°C See Xgen Series datasheet Always ON. Current 250mA Failures per million hours at 25°C and full load powerMod See Designers' Manual. powerPac excludes fans Standard EN55011, EN55022, FCC EN61000-3-2 EN61000-4-2 EN61000-4-2 EN61000-4-3 EN61000-4-5 EN61000-4-6	1500	5.0 5.0 Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10	5.1 1.0	% μA fpmh Unit
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 Chassis 230VAC, 400W @ 24V EN60601-1, UL2601-1, CSA601-1 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 EN61000-3-2 EN61000-4-2 EN61000-4-2 EN61000-4-3 EN61000-4-5 EN61000-4-6 EN61000-4-11 (EN55024)	1500 4.9	5.0 5.0 Level B Level B Compliant Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	5.1 1.0 0.9	% μA 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 Conducted RFI Voltage Dips ENVIRONMENTAL Parameter	Input to Chassis 230VAC, 400W @ 24V EN60601-1, UL2601-1, CSA601-1 250VAC, 60Hz, 25°C See Xgen Series datasheet Always ON. Current 250mA Failures per million hours at 25°C and full load powerMod See Designers' Manual. powerPac excludes fans Standard EN55011, EN55022, FCC EN61000-3-2 EN61000-4-2 EN61000-4-2 EN61000-4-3 EN61000-4-5 EN61000-4-6	1500 4.9 4.9	5.0 5.0 Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10	5.1 1.0 0.9	% μA VDC fpmh Unit
Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker and Fluctuation Immunity Electrostatic Discharge Radiated RFI Fast Transients - burst Input Line Surges Conducted RFI Voltage Dips ENVIRONMENTAL Parameter Operating Temperature	Input to Chassis 230VAC, 400W @ 24V EN60601-1, UL2601-1, CSA601-1 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 EN61000-3-2 EN61000-4-2 EN61000-4-2 EN61000-4-3 EN61000-4-5 EN61000-4-6 EN61000-4-11 (EN55024)	1500 4.9 4.9	5.0 5.0 Level B Level B Compliant Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	5.1 1.0 0.9	% μA VDC 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 Storage Temperature	Input to Chassis 230VAC, 400W @ 24V EN60601-1, UL2601-1, CSA601-1 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 EN61000-3-2 EN61000-4-2 EN61000-4-2 EN61000-4-3 EN61000-4-5 EN61000-4-6 EN61000-4-11 (EN55024)	1500 4.9 4.9	5.0 5.0 Level B Level B Compliant Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	5.1 1.0 0.9	% μA 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 Storage Temperature Derating	Input to Chassis 230VAC, 400W @ 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 EN61000-4-3 EN61000-4-5 EN61000-4-6 EN61000-4-6 EN61000-4-11 (EN55024) Conditions/Description 2.5% per °C above 40°C. See Designers Manual for full deratings	1500 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9	5.0 5.0 Level B Level B Compliant Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	5.1 1.0 0.9 	% μA VDC fpmh fpmh Units V/m ms 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 Parameter Operating Temperature Derating Relative Humidity	Input to Chassis 230VAC, 400W @ 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 EN61000-3-2 EN61000-3-3 EN61000-4-2 EN61000-4-3 EN61000-4-3 EN61000-4-5 EN61000-4-6 EN61000-4-11 (EN55024) Conditions/Description 2.5% per °C above 40°C. See Designers Manual for full deratings Non-condensing	1500 4.9 4.9	5.0 5.0 Level B Level B Compliant Compliant Level 4 Level 4 Level 4 Class 4 10 10 Nom	5.1 1.0 0.9	% μA vDC fpmh fpmh Units V/m ms Units °C °C %RF
Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker and Fluctuation Immunity Electrostatic Discharge Radiated RFI Fast Transients - burst Input Line Surges Conducted RFI Voltage Dips ENVIRONMENTAL Parameter Operating Temperature Storage Temperature Derating	Input to Chassis 230VAC, 400W @ 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 EN61000-4-3 EN61000-4-5 EN61000-4-6 EN61000-4-6 EN61000-4-11 (EN55024) Conditions/Description 2.5% per °C above 40°C. See Designers Manual for full deratings	1500 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9	5.0 5.0 Level B Level B Compliant Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	5.1 1.0 0.9 	% μA γDC fpmh Units V/m ms

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.





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