200W-600W



Slimline Power Supply

User Configurable 1U size



PLUG & PLAY POWER next generation power solution

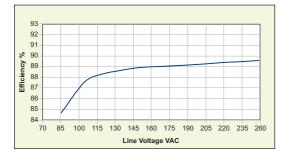
FEATURES & OPTIONS

- Low Acoustic noise 39.8dBA
- 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

- Audio Equipment
- Test and measurement
- Telecommunications

EFFICIENCY (typical)



The XK family of low acoustic noise power supplies provides up to 600W in a slimline 1U x 260mm x 89mm package. Providing up to 8 isolated outputs, the XK family is the most flexible power supply in its class and brings affordable configurable power to the 200-600W market.

Ideal for acoustic sensitive applications, the XK boasts unrivalled power density saving valuable system space. Combine with ultra high efficiencies, the XK family provides system designers with flexible instant solutions that significantly shorten and simplify system design-in time.

The XK family consists of 3 powerPac models in 200W, 400W and 600W power levels. Each powerPac model may be populated with up to 4 powerMods selected from the table of powerMods shown below.

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

powerMo	ds					
MODEL	Vı Vtrim	min _{Vpot}	Vnom	Vmax	lmax	Watts
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	28	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

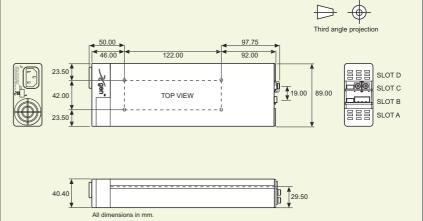
owerPacs

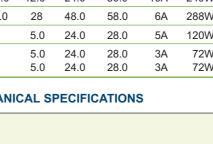
	MODEL	Watts
	XKA	200W
X	XKB	400W
	XKC	600W

*qen*Series

MECHANICAL SPECIFICATIONS

Note: See diagrams on pages 34-37







200W-600W

Low Acoustic Noise

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

INPUT					
Parameter	Conditions/Description	Min	Nom	Max	Units
Input Voltage Range	Universal Input 47-440Hz	85		264	VAC
		120		380	VDC
Power Rating	XKA:200W, XKB:400W, XKC:600W				
	See Section 4.11 for line voltage deratings		4 E		•
Input Current XKA XKB	85VAC in 200W out 85VAC in 400W out		4.5 5.5		A
			5.5		A
XKC Inrush Current	85VAC in 400W out		7.5	50	A
	230VAC, 25°C Shutdown	65		50 74	A VAC
Undervoltage Lockout Fusing XKA	250V 5 x 20mm	60	F5A HRC	74	VAC
Fusing XKA XKB					
ХКС	250V 5 x 20mm 250V 5 x 20mm		F6.3A HRC F8A HRC		
-	2307 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		0		•
Minimum Load	For 140% shares from nominal line		0	10.4	A
Line Regulation	For ±10% change from nominal line			±0.1	%
Load Regulation	For 25% to 75% load change			±0.2	%
Cross Regulation	For 25% to 75% load change Voltage Deviation			±0.2 10	%
Transient Response	0 0				
Pipple and Noice	20MHz 100mV or 1.0% pk-pk			250	μs
Ripple and Noise Overvoltage Protection	Two-level. 1st level: Vset Tracking. 2nd level: Vmax (Latching)	110		125	%
Overvoltage Protection	Straight line with hiccup activation at <30% of Vnom				%
Overcurrent Protection	Straight line with niccup activation at <30% of Vnom See Section 4.6	110		120	70
Remote Sense	Max. line drop compensation. (except Xg7, Xg8)			0.5	VDC
Remote Sense Overshoot				2	%
Turn-on Delay	From AC in and Global Enable / powerMod Enable			700 / 6	ms
Rise Time	Monotonic			5	ms
Hold-up Time	For nominal output voltages at full load	20		5	ms
Output Isolation	Output to Output / Output to Chassis	500 / 500			VDC
•		0007000			100
GENERAL					
	Conditions/Description	Min	Nom	Max	Units
Parameter					
	Input to Output	3000			VAC
Isolation Voltage	Input to Output Input to Chassis	3000 1500	00		VAC
Isolation Voltage Efficiency	Input to Output Input to Chassis 230VAC, 600W @ 24V		89		-
Isolation Voltage Efficiency Safety Agency Approvals	Input to Output Input to Chassis 230VAC, 600W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875		89	4.5	VAC %
Isolation Voltage Efficiency Safety Agency Approvals Leakage Current	Input to Output Input to Chassis 230VAC, 600W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C		89	1.5	VAC
Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals	Input to Output Input to Chassis 230VAC, 600W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Section 4.9	1500			VAC % mA
Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply	Input to Output Input to Chassis 230VAC, 600W @ 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		89 5.0	5.2	VAC % mA VDC
Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply	Input to Output Input to Chassis 230VAC, 600W @ 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	1500		5.2 0.958	VAC % mA VDC fpmh
Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability	Input to Output Input to Chassis 230VAC, 600W @ 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	1500		5.2	VAC % mA VDC
Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability	Input to Output Input to Chassis 230VAC, 600W @ 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	1500	5.0	5.2 0.958	VAC % mA VDC fpmh fpmh
Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter	Input to Output Input to Chassis 230VAC, 600W @ 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	1500		5.2 0.958	VAC % mA VDC fpmh
Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions	Input to Output Input to Chassis 230VAC, 600W @ 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	1500	5.0	5.2 0.958	VAC % mA VDC fpmh fpmh
Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted	Input to Output Input to Chassis 230VAC, 600W @ 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	1500	5.0 Level	5.2 0.958	VAC % mA VDC fpmh fpmh
Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated	Input to Output Input to Chassis 230VAC, 600W @ 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	1500	5.0 Level Level B Level B	5.2 0.958	VAC % mA VDC fpmh fpmh
Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion	Input to Output Input to Chassis 230VAC, 600W @ 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	1500	5.0 Level Level B Level B Compliant	5.2 0.958	VAC % mA VDC fpmh fpmh
Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation	Input to Output Input to Chassis 230VAC, 600W @ 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	1500	5.0 Level Level B Level B	5.2 0.958	VAC % mA VDC fpmh fpmh
Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation Immunity	Input to Output Input to Chassis 230VAC, 600W @ 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 Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 Class A EN61000-3-3	1500	5.0 Level Level B Level B Compliant Compliant	5.2 0.958	VAC % mA VDC fpmh fpmh
Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation Immunity Electrostatic Discharge	Input to Output Input to Chassis 230VAC, 600W @ 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 EN61000-3-3 EN61000-4-2	1500	5.0 Level Level B Level B Compliant Compliant Level 2	5.2 0.958	VAC % mA VDC fpmh fpmh
Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation Immunity Electrostatic Discharge Radiated Immunity	Input to Output Input to Chassis 230VAC, 600W @ 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 EN61000-3-3 EN61000-4-2 EN61000-4-3	1500	5.0 Level Level B Level B Compliant Compliant Level 2 Level 3	5.2 0.958	VAC % mA VDC fpmh fpmh
Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation Immunity Electrostatic Discharge Radiated Immunity Fast Transients-Burst	Input to Output Input to Chassis 230VAC, 600W @ 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 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 2 Level 3 Level 3	5.2 0.958	VAC % mA VDC fpmh fpmh
Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation Immunity Electrostatic Discharge Radiated Immunity Fast Transients-Burst Input Line Surges	Input to Output Input to Chassis 230VAC, 600W @ 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 EN61000-4-2 EN61000-4-2 EN61000-4-3 EN61000-4-5	1500	5.0 5.0 Level B Level B Compliant Compliant Compliant Level 2 Level 3 Level 3 Level 3	5.2 0.958	VAC % mA VDC fpmh fpmh
Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation Immunity Electrostatic Discharge Radiated Immunity Fast Transients-Burst Input Line Surges Conducted Immunity	Input to Output Input to Chassis 230VAC, 600W @ 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	1500	5.0 Level B Level B Level B Compliant Compliant Level 2 Level 3 Level 3 Level 3 Level 3	5.2 0.958	VAC % mA VDC fpmh fpmh
Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation Immunity Electrostatic Discharge Radiated Immunity Fast Transients-Burst Input Line Surges Conducted Immunity	Input to Output Input to Chassis 230VAC, 600W @ 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 EN61000-4-2 EN61000-4-2 EN61000-4-3 EN61000-4-5	1500	5.0 5.0 Level B Level B Compliant Compliant Compliant Level 2 Level 3 Level 3 Level 3	5.2 0.958	VAC % mA VDC fpmh fpmh
Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC	Input to Output Input to Chassis 230VAC, 600W @ 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	1500	5.0 Level B Level B Level B Compliant Compliant Level 2 Level 3 Level 3 Level 3 Level 3	5.2 0.958	VAC % mA VDC fpmh fpmh
Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation Immunity Electrostatic Discharge Radiated Immunity Fast Transients-Burst Input Line Surges Conducted Immunity Voltage Dips ENVIRONMENTAL	Input to Output Input to Chassis 230VAC, 600W @ 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 EN61000-4-4 EN61000-4-5 EN61000-4-11, SEMI F47 compliant. See note 7.	1500 4.8	5.0 5.0 Level B Level B Compliant Compliant Compliant Level 2 Level 3 Level	5.2 0.958 0.92	VAC % MA VDC fpmh fpmh Units
Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation Immunity Electrostatic Discharge Radiated Immunity Fast Transients-Burst Input Line Surges Conducted Immunity Voltage Dips ENVIRONMENTAL Parameter	Input to Output Input to Chassis 230VAC, 600W @ 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	1500 4.8 4.8	5.0 Level B Level B Level B Compliant Compliant Level 2 Level 3 Level 3 Level 3 Level 3	5.2 0.958 0.92	VAC % MA VDC fpmh fpmh Units
Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation Immunity Electrostatic Discharge Radiated Immunity Fast Transients-Burst Input Line Surges Conducted Immunity Voltage Dips ENVIRONMENTAL Parameter Operating Temperature	Input to Output Input to Chassis 230VAC, 600W @ 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 EN61000-4-4 EN61000-4-5 EN61000-4-11, SEMI F47 compliant. See note 7.	1500 4.8 4.8	5.0 5.0 Level B Level B Compliant Compliant Compliant Level 2 Level 3 Level	5.2 0.958 0.92	VAC % MA fpmh fpmh Units
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	Input to Output Input to Chassis 230VAC, 600W @ 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 EN61000-4-2 EN61000-4-2 EN61000-4-3 EN61000-4-3 EN61000-4-5 EN61000-4-6 EN61000-4-6 EN61000-4-6 EN61000-4-11, SEMI F47 compliant. See note 7.	1500 4.8 4.8	5.0 5.0 Level B Level B Compliant Compliant Compliant Level 2 Level 3 Level	5.2 0.958 0.92	VAC % MA VDC fpmh fpmh Units
Isolation Voltage Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation Immunity Electrostatic Discharge Radiated Immunity Fast Transients-Burst Input Line Surges Conducted Immunity Voltage Dips ENVIRONMENTAL Parameter Operating Temperature Storage Temperature Derating	Input to Output Input to Chassis 230VAC, 600W @ 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 EN61000-3-3 EN61000-4-2 EN61000-4-3 EN61000-4-3 EN61000-4-5 EN61000-4-6 EN61000-4-6 EN61000-4-6 EN61000-4-11, SEMI F47 compliant. See note 7. Conditions/Description See Section 4.11 for full temperature deratings	1500 4.8 4.8 4.8 4.8 4.8	5.0 5.0 Level B Level B Compliant Compliant Compliant Level 2 Level 3 Level	5.2 0.958 0.92	VAC % MA VDC fpmh fpmh Units Units Units Units Units
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 Relative Humidity	Input to Output Input to Chassis 230VAC, 600W @ 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 EN61000-3-3 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 7. Conditions/Description See Section 4.11 for full temperature deratings Non-condensing	1500 4.8 4.8	5.0 Level B Level B Level B Compliant Compliant Level 3 Level 3 Level 3 Level 3 Level 3 Nom	5.2 0.958 0.92	VAC % MA VDC fpmh fpmh Units Units Units Units Units Units VDC
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	Input to Output Input to Chassis 230VAC, 600W @ 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 EN61000-3-3 EN61000-4-2 EN61000-4-3 EN61000-4-3 EN61000-4-5 EN61000-4-6 EN61000-4-6 EN61000-4-6 EN61000-4-11, SEMI F47 compliant. See note 7. Conditions/Description See Section 4.11 for full temperature deratings	1500 4.8 4.8 4.8 4.8 4.8	5.0 5.0 Level B Level B Compliant Compliant Compliant Level 2 Level 3 Level	5.2 0.958 0.92	VAC % MA VDC fpmh fpmh VDC fpmh fpmh fpmh Vnits Units Units Units Units

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. When powering inductive or capacitive loads, it is recommended to use a blocking diode on the output.
- 5. Conformal Coating option: See Sections 3.1 and 4.10 for details.

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

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

