Plug & Play Power

next generation power source

Lowest Profile (1U) Highest Efficiency

FEATURES

- up to 1200W multi-output power in 1U (40mm)
- 1.5V to 58V standard output voltages
- · All outputs fully floating
- Plug & Play power module architecture
 - allows fast custom configurations
 - facilitates rapid prototyping
 - simplifies logistics
- Ultra-high efficiency up to 90%
- Series / Parallel of multiple outputs
- Visual LED indicators

APPLICATIONS INCLUDE

- Industrial machines
- Test and measurement
- Automation equipment
- Telecommunications
- Medical equipment
- Laboratory and Diagnostic equipment
- Audio and broadcast
- Linear and rotary motion
- 19" systems







Excelsys brings over 20 years experience of modular power supply development and applications together with the most modern product development and design techniques in the revolutionary Xgen series.

The Xgen series brings OEM power supplies to a new paradigm, combining technical excellence with logistics simplicity to fully resolve all the concerns regularly expressed by users of multiple-output power supplies. Xgen continues the Excelsys tradition of providing an instant, no compromise power solution for any application where a unique set of voltage and current requirements is needed.

Too much heat generated in your OEM equipment? Difficult to maintain your equipment at the right temperature?

EFFICIENCY

Xgen has industry-unrivalled efficiency, exceeding 90% !! This means that less than half of the amount of waste heat is created in comparison to conventional multiple output power sources with efficiencies of 80% and lower. It also guarantees increased reliability.

Now, that's a cool power supply!

Not enough space available in your OEM equipment? Is space at a premium, making design and manufacture difficult and compromised?

Xgen has industry-unrivalled power density for a full functionality ac/dc power supply, at 15W/in³. Check it out! You can get 1200W of multiple-output power source in 1U rack space - Xgen dimension: 40.4mm! It's so compact, you'll hardly notice it, once installed, and it leaves plenty more space for your other components and general accessibility.

Now, that's a discreet power supply!

Need a custom power supply in a hurry?

CUSTOM POWER

Xgen is a true Plug & Play multiple-output power supply. Any one of more than 30 million configurations can be assembled anywhere, in under 5 minutes, from standard, volume-produced modules. This is the new-paradigm: a custom power supply available in 5 minutes from standard parts.

Now, that's a *new paradigm* power supply!

Worried about meeting all relevant standards - EMC, Safety, etc?

STANDARD APPROVALS

Xgen series models are fully compliant with all relevant standards. Xcite, Xlite, Xhite and Xgite models meet the requirements of EN60950, UL60950, CSA22.2, EN61000-3-x and EN61000-4-x. Additionally Xvite and Xmite models meet the requirements of EN60601-1 and UL2601 for medical applications.



Now, that's a *re-assuring* power supply!

Looking for a cost-effective long term solution for all your power supply requirements?

COST-EFFECTIVE

Xgen is configured from standard component parts that are manufactured in volume in a world class manufacturing facility. This allows Excelsys to provide you with all the benefits of Xgen at a world class competitive price. Call Excelsys or one of our distributors and find out for yourself.

Now, that's an excellent value power supply!





Excelsys Development and Design Methodology

Excelsys has applied the most modern and rigorous processes and design techniques to development of the Xgen product range.

As well as design laboratory testing and field prototype testing to development of Xgen. Highly Accelerated Life Testing ensures that design margins are more than sufficient to



Voltage Adjustment - Local

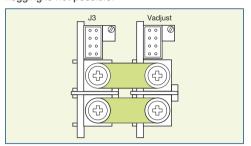
The multi-turn potentiometer that adjusts each output within the specified range may be accessed via the output panel of the power supply. Clockwise rotation increases output voltage. Resolution is approximately 5% of nominal voltage (Vnom) per turn.

Voltage Adjustment - Remote (resistive / electronic)

The output voltage may be adjusted or trimmed by means of an external resistor or potentiometer network connected to the Vtrim pin. Linear Electronic programming is also possible and may be implemented according to the formula Vout = K Vcontrol. See Xgen series Designers' Manual for full details.

Paralleling

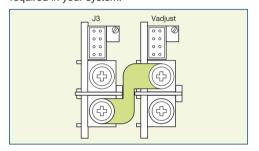
To achieve increased current capacity, simply parallel outputs using the standard parallel links. Excelsys 'wireless' sharing ensures that current hogging is not possible.



Standard parallel links can be supplied. To order, please use part number XP1.

Seriesing

To achieve increased output voltages, simply series outputs using standard series links, paying attention to the requirements to maintain SELV levels if required in your system.



Standard serial links can be supplied. To order, please use part number XS1.

Remote Sensing

When the load is remote from the power supply, the remote sense pins may be used to compensate for drops in the power leads. Where the power cabling contributes significant dynamic impedance, see Xgen series Designers' Manual.

Bias Voltage

A SELV isolated 5V (always on) bias voltage rated at 250mA is provided on J2 to facilitate miscellaneous control functions.

Current Limit Adjustment

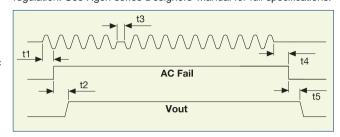
The output current limit setting may be adjusted (downwards only) by means of an external resistor connection to the I trim pin.

Inhibit/Enable

Inhibiting may be implemented either globally or on a per module basis (powerPac or powerMod inhibiting). Reverse logic (Enabling) may also be implemented, see Xgen series Designers' Manual.

AC Fail

Open collector signal indicating that the input voltage has failed or is less than 80Vac. This signal changes state giving 5mS of warning before loss of output regulation. See Xgen series Designers' Manual for full specifications.

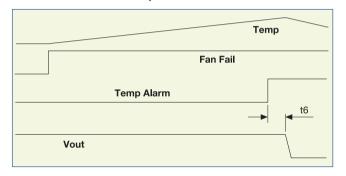


Temperature Alarm (Option 01)

Open collector signal indicating excessive *powerPac* temperatures due to fan failure or operation beyond ratings. This signal is activated at least 10ms prior to system shutdown.

Fan Fail (Option 01)

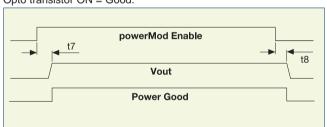
Open collector signal indicating that at least one of the system fans have failed. This does not cause system shutdown.



Power Good

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

Opto transistor ON = Good.



Indication LEDs

Each powerMod has a visual indicator to identify that it is operating within normal ratings. Very useful for system diagnosis.

Signal Connector Pinout

Pin	J2 (powerPac)	J3 (powerMod TYPE A)**	J3 (powerMod Type B)**
1	common	+sense	+pg (V2)
2	+5V bias	-sense	-pg (V2)
3		V trim	inhibit (V2)
4	ac fail	I trim	common (V2)
5	fan fail*	+inhibit/enable	+pg (V1)
6	global enable	-inhibit/enable	-pg (V1)
7	temp alarm*	+power good	inhibit (V1)
8	global inhibit	-power good	common (V1)

^{*}Option 01 only





^{**}See individual powerMod datasheets



The Xgen series power supplies combine feature-laden front-ends (powerPacs) with slide-in output converters (powerMods). The plug-together architecture facilitates 'instant' custom power solutions with industry leading 15W/in³ power density and up to 90% conversion efficiency.

powerPacs (6slot package, 127mm wide)

Family	MODEL	
Xcite	XCA	400W
	XCB	700W
	XCC	1000W
	XCD	1200W

The Xhite family is designed specifically for extended temperature applications fully specified from -20°C to +70°C with no derating !!!

The Xqite family is designed specifically for acoustic sensitive applications.

	Family	MODEL	Watts
	Xvite	XVA	400W
Med		XVB	700W
Σ		XVC	1000W
		XVD	1200W
보	Xhite	XHA	400W
Τ.		XHB	600W
QT	Xqite	XQA	400W
		XQB	900W

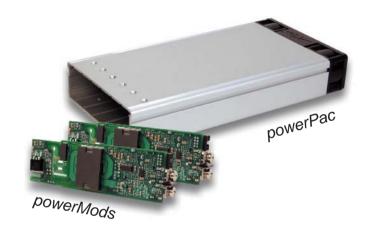
powerPacs (4slot package, 89mm wide)

Family	MODEL	
Xlite	XLA	200W
	XLB	400W
	XLC	600W

		MODEL	Watts
Med	Xmite	XMA	200W
		XMB	400W
		XMC	600W

powerMods (for use with all powerPac models)

perior de mar di perior de medele)						
MODEL		Vnom				
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	5.0 5.0	24.0 24.0	28.0 28.0	3A 3A	72W 72W	



HOW TO ORDER

Configured Units may be specified and ordered using the part numbering system shown opposite. For example, part number XVC123400-01 specifies the following 1000W medical power supply.

- 2.5V @ 50A 5V @ 40A 12V @ 20A 24V @ 10A
- Thermal signals suite fitted to powerPac

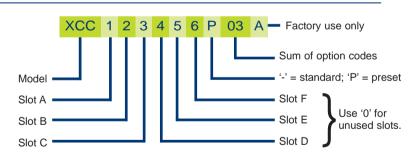
Accessories may be ordered directly using the part numbers shown.

Part	Part No.	
Left Slot Cover	XB1	Note that unused slots
Inner Slot Cover	XB2	should be fitted with
Right Slot Cover	XB3	appropriate slot covers.
Series Link	XS1	
Parallel Link	XP1	

powerPacs may be ordered directly using the model number shown in the tables followed by the appropriate option code suffix. E.g. XVB-01 is the part number for 700W powerPac with medical approval and thermal signals.

powerMods may be ordered directly using the model numbers shown in the powerMod table. E.g. Xg2 is the part number for a 5V 40A module.

powerKits consist of application specific powerPacs and a selection of powerMods packaged in a convenient carry case. Particularly useful for sytems designers. See powerKit datasheet.



Xgen Option Codes

- 01 Thermal Signals
- 02 Reverse Fan (not available on 1200W models)

Preset Units

Units are shipped with nominal output voltages unless presetting is specified. Excelsys can preset units to your exact requirements, through use of appropriate parallel and series links and through voltage adjustment to specific preset levels. See www.excelsys.com for more details.

On-line Configuration and Ordering

Now build your Xgen product on-line using our configuration wizard. Simply enter your Volts and Amps requirements and the wizard will do the rest.



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AC/DC Power Supply

Ultra-high efficiency 1U size



PLUG & PLAY POWER next generation power source

FEATURES

- 1.5V to 58V standard output voltages
- · All outputs fully floating
- 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
- Few electrolytic capacitors (all long life)
- · Visual LED indicators
- Series / Parallel of multiple outputs
- 5V bias standby voltage provided
- Individual output control signals

APPLICATIONS INCLUDE

- Industrial machines
- · Test and measurement
- Automation equipment
- Printing
- Telecommunications
- For Medical applications see Xvite

The Xcite family of power supplies provides up to an incredible 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 Xcite family employs an innovative plug & play architecture that allows users to instantly configure a custom power solution in less than 5 minutes!

Ultra high efficiencies and high power density are made possible through the combination of low loss technologies and the best field-proven technologies in planar magnetics and surface mount electronics. Significantly increased efficiency reduces system thermal load by more than 50%.

The X_{cite} family consists of 4 *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, UL60950, EN60950 and are CE marked. For alternative power interfaces contact support@excelsys.com

powerMods

MODEL		Vnom			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

*see datasheet powerMods for full output module specifications powerMod ratings when used with Xcite powerPac

powerPacs

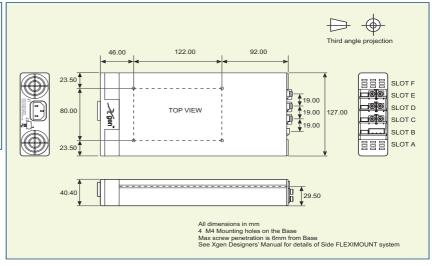
	MODEL	Watts
Xcite	XCA	400W
	XCB	700W
	XCC	1000W
	XCD	1200W

EFFICIENCY (typical)

93 92 91 % 90 \$\frac{5}{2}\$ 90 \$\frac{1}{2}\$ 88 86 85 70 85 100 115 130 145 160 175 190 205 220 235 260 Line Voltage VAC



MECHANICAL SPECIFICATIONS



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

INPUT					
Parameter	Conditions/Description	Min	Nom	Max	Units
Input Voltage Range	Universal Input	85		264	VAC
,gege		120		380	VDC
Input Frequency Range		47		63	Hz
Power Rating XCA		- ''		400	W
XCB				700	W
XCC	Derate linearly from 1000W at 100VAC to 850W at 85VAC			1000	W
					W
XCD	Derate linearly from 1200W at 120VAC to 850W at 85VAC		7.5	1200	
Input Current XCA	85VAC in 400W out		7.5		A
XCB	85VAC in 700W out		9.5		Α
XCC, XCD	85VAC in 850W out		11.5		Α
Inrush Current	230VAC @ 25°C			20	Α
Undervoltage Lockout	Shutdown	70		78	VAC
Fusing XCA	250V		F8A HRC		
XCB	250V		F10A HRC		
XCC, XCD	250V		F12A HRC		
OUTPUT					
<u> </u>	ConditionalDenoviation	Min	Nom	May	Heite
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 & Cross Regulation	For 25% to 75% load change			±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-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	%.
Overcurrent Protection		110		120	70.
D	See powerMod datasheet and Designer's Manual for full details			0.5	\ /D.O
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. XCA,XCB,XCC / XCD	20 / 15			ms
Output Isolation	Output to Output / Output to Chassis	500 / 500			VDC
GENERAL					
	Condition - ID violation	B.C.L.	Maria	Mari	Haita
Parameter	Conditions/Description	Min	Nom	Max	Units
Isolation Voltage	Input to Output	3000			VAC
	Input to Chassis	1500			VAC
Efficiency	230VAC, 1200W @ 24V		90		%
Safety Agency Approvals	EN60950, UL60950, CSA22.2 No.950 UL File No. E181875				
Leakage Current	250VAC, 60Hz, 25°C			1.5	mA
Signals	See Xgen Series datasheet				
Bias Supply	Always ON. Current 250mA	4.9	5.0	5.1	VDC
Reliability	Failures per million hours at 25°C and full load powerMod			1.0	fpmh
• •	See Designers' Manual powerPac excludes fans powerPac			0.6	fpmh
EMC					E
EMC					
Parameter	Standard		Level		Units
Emissions					
Conducted	EN55011, EN55022, FCC		Level B		
Radiated	EN55011, EN55022, FCC		Level B		
Harmonic Distortion	EN61000-3-2		Compliant		
Flicker and Fluctuation	EN61000-3-3		Compliant		
Immunity					
Immunity Electrostatic Discharge	EN61000-4-2				
Electrostatic Discharge	EN61000-4-2 EN61000-4-3		Level 4		
Electrostatic Discharge Radiated RFI	EN61000-4-3		Level 3		
Electrostatic Discharge Radiated RFI Fast Transients - burst	EN61000-4-3 EN61000-4-4		Level 3 Level 4		
Electrostatic Discharge Radiated RFI Fast Transients - burst Input Line Surges	EN61000-4-3 EN61000-4-4 EN61000-4-5		Level 3 Level 4 Class 4		
Electrostatic Discharge Radiated RFI Fast Transients - burst Input Line Surges Conducted RFI	EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-6		Level 3 Level 4 Class 4 10		V/m
Electrostatic Discharge Radiated RFI Fast Transients - burst	EN61000-4-3 EN61000-4-4 EN61000-4-5		Level 3 Level 4 Class 4		V/m ms
Electrostatic Discharge Radiated RFI Fast Transients - burst Input Line Surges Conducted RFI Voltage Dips	EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-6		Level 3 Level 4 Class 4 10		_
Electrostatic Discharge Radiated RFI Fast Transients - burst Input Line Surges Conducted RFI Voltage Dips ENVIRONMENTAL	EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-6 EN61000-4-11 (EN55024)		Level 3 Level 4 Class 4 10		ms
Electrostatic Discharge Radiated RFI Fast Transients - burst Input Line Surges Conducted RFI Voltage Dips ENVIRONMENTAL Parameter	EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-6 EN61000-4-11 (EN55024) Conditions/Description	Min	Level 3 Level 4 Class 4 10	Max	ms Units
Electrostatic Discharge Radiated RFI Fast Transients - burst Input Line Surges Conducted RFI Voltage Dips ENVIRONMENTAL Parameter Operating Temperature	EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-6 EN61000-4-11 (EN55024)	-20	Level 3 Level 4 Class 4 10	+70	ms Units °C
Electrostatic Discharge Radiated RFI Fast Transients - burst Input Line Surges Conducted RFI Voltage Dips ENVIRONMENTAL Parameter Operating Temperature Storage Temperature	EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-6 EN61000-4-11 (EN55024) Conditions/Description Full Load up to 50°C. See derating below.		Level 3 Level 4 Class 4 10		ms Units
Electrostatic Discharge Radiated RFI Fast Transients - burst Input Line Surges Conducted RFI Voltage Dips ENVIRONMENTAL Parameter Operating Temperature	EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-6 EN61000-4-11 (EN55024) Conditions/Description	-20	Level 3 Level 4 Class 4 10	+70	ms Units °C
Electrostatic Discharge Radiated RFI Fast Transients - burst Input Line Surges Conducted RFI Voltage Dips ENVIRONMENTAL Parameter Operating Temperature Storage Temperature	EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-6 EN61000-4-11 (EN55024) Conditions/Description Full Load up to 50°C. See derating below.	-20	Level 3 Level 4 Class 4 10	+70	ms Units °C
Electrostatic Discharge Radiated RFI Fast Transients - burst Input Line Surges Conducted RFI Voltage Dips ENVIRONMENTAL Parameter Operating Temperature Storage Temperature Derating	EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-6 EN61000-4-11 (EN55024) Conditions/Description Full Load up to 50°C. See derating below. 2.5% per °C above 50°C	-20 -40	Level 3 Level 4 Class 4 10	+70 +85	Units °C °C

NOTES

Vibration

- 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.

1.5G

Doc. 40032 rev. 02 04/05

Hz



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lite

Slimline Power Supply

User Configurable 1U size



PLUG & PLAY POWER next generation power source

FEATURES

- Slimmest 400W configurable power
- Extra low profile: 1U height (40mm)
- · All outputs fully floating
- 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)
- · Visual LED indicators
- Series / Parallel of multiple outputs
- 5V bias standby voltage provided
- · Individual output control signals

APPLICATIONS INCLUDE

- Industrial machines
- · Test and measurement
- Automation equipment
- Printing
- Telecommunications
- For Medical applications see Xmite

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

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

The Xiite 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. For alternative power interfaces contact support@excelsys.com

powerMods

MODEL		Vnom			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

^{*}see datasheet *powerMods* for full output module specifications *powerMod* ratimgs when used with Xlite *powerPac*

powerPacs

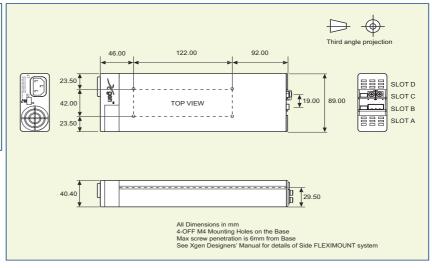
	MODEL	Watts
Ф	XLA	200W
#	XLB	400W
X	XLC	600W

EFFICIENCY (typical)

93 92 91 88 89 86 85 70 85 100 115 130 145 160 175 190 205 220 235 260 Line Voltage VAC

genseries

MECHANICAL SPECIFICATIONS



1

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
pat tottage ttallige	om order mpac	120		380	VDC
Input Frequency Range		47		63	Hz
Power Rating XLA		71		200	W
XLB				400	W
	Deserte linearly from C000M at 4000 (AC to 4000M at 05) (AC				
XLC	Derate linearly from 600W at 180VAC to 400W at 85VAC		4.0	600	W
Input Current XLA	85VAC in 200W out		4.0		A
XLB	85VAC in 400W out		7.5		Α
XLC	85VAC in 400W out		7.5		Α
Inrush Current	230VAC @ 25°C			20	Α
Undervoltage Lockout	Shutdown	70		78	VAC
Fusing XLA	250V 5 x 20mm		F5A HRC		
XLB	250V 5 x 20mm		F8A HRC		
XLC	250V 5 x 20mm		F8A HRC		
OUTPUT					
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			±0.1	%
Cross Regulation	to			±0.2	%
Transient Response	For 25% to 75% load change Voltage Deviation			10.2	%
Transfert Response	Settling Time			250	
Ripple and Noise	20MHz Bandwidth			1.0	μs % pk-p
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	440			
Overvoltage Protection	Two-level. 1st level: Vset Tracking. 2nd level: Vmax (Latching)	110		125	%
Overcurrent Protection	Straight line with hiccup activation at <30% of Vnom	110		120	%
	See powerMod datasheet and 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		_	_		
	A 1111 15 1 11				
		Min	Nom	Max	Units
Parameter	Conditions/Description				VAC
Parameter Isolation Voltage	Input to Output	3000			
	·	3000 1500			VAC
	Input to Output		89		VAC %
Isolation Voltage	Input to Output Input to Chassis		89		
Isolation Voltage Efficiency	Input to Output Input to Chassis 230VAC, 400W @ 24V		89	1.5	
Isolation Voltage Efficiency Safety Agency Approvals Leakage Current	Input to Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C		89	1.5	%
Efficiency Safety Agency Approvals Leakage Current Signals	Input to Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Xgen Series datasheet	1500			% mA
Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply	Input to Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Xgen Series datasheet Always ON. Current 250mA		5.0	5.1	mA VDC
Efficiency Safety Agency Approvals Leakage Current Signals	Input to Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 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	mA VDC fpmh
Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability	Input to Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Xgen Series datasheet Always ON. Current 250mA	1500		5.1	% mA VDC
Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability	Input to Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 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	% mA VDC fpmh fpmh
Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability	Input to Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 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	mA VDC fpmh
Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability	Input to Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 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	% mA VDC fpmh fpmh
Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions	Input to Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 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	1500	5.0	5.1 1.0	% mA VDC fpmh fpmh
Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted	Input to Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 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	% mA VDC fpmh fpmh
Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated	Input to Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 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 B Level B	5.1 1.0	% mA VDC fpmh fpmh
Efficiency Safety Agency Approvals Leakage Current Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion	Input to Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 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 Level B Level B Compliant	5.1 1.0	% mA 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 Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 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 B Level B	5.1 1.0	% mA 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 Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 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	Level B Level B Compliant Compliant	5.1 1.0	% mA 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 Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 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	Level B Level B Compliant Compliant Level 4	5.1 1.0	% mA 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 Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 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	1500	Level B Level B Compliant Compliant Level 4 Level 3	5.1 1.0	% mA 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 Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 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 EN61000-4-3 EN61000-4-4	1500	Level B Level B Compliant Compliant Level 4 Level 3 Level 4	5.1 1.0	% mA 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 Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 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	1500	Level B Level B Compliant Compliant Level 4 Level 3	5.1 1.0	% mA 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 Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 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	1500	Level B Level B Compliant Compliant Level 4 Level 3 Level 4	5.1 1.0	% mA 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 Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 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	1500	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4	5.1 1.0	% mA VDC fpmh fpmh 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	Input to Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 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	1500	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4	5.1 1.0	% mA VDC fpmh fpmh 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	Input to Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 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)	4.9	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	5.1 1.0 0.5	mA VDC fpmh fpmh 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	Input to Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 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	1500	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4	5.1 1.0	% MA VDC fpmh fpmh 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	Input to Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 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) Conditions/Description	1500 4.9	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	5.1 1.0 0.5	mA VDC fpmh fpmh 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	Input to Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 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)	4.9 Min -20	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	5.1 1.0 0.5	% mA VDC fpmh fpmh 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 Storage Temperature	Input to Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 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 EN55011, EN55022, FCC EN55011, EN55012, FCC EN61000-3-2 EN61000-3-2 EN61000-4-2 EN61000-4-3 EN61000-4-5 EN61000-4-6 EN61000-4-6 EN61000-4-11 (EN55024) Conditions/Description Full Load up to 50°C. See derating below.	1500 4.9	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	5.1 1.0 0.5	% MA 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 Storage Temperature Derating	Input to Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 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 EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 EN61000-3-2 EN61000-4-2 EN61000-4-3 EN61000-4-3 EN61000-4-5 EN61000-4-6 EN61000-4-1 (EN55024) Conditions/Description Full Load up to 50°C. See derating below.	1500 4.9 Min -20 -40	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	Max +70 +85	WDC fpmh fpmh Units V/m ms Units C C C
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	Input to Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 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 EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 EN61000-3-2 EN61000-4-3 EN61000-4-5 EN61000-4-5 EN61000-4-6 EN61000-4-11 (EN55024) Conditions/Description Full Load up to 50°C. See derating below.	4.9 Min -20	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	5.1 1.0 0.5	% MA 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 Storage Temperature Derating	Input to Output Input to Chassis 230VAC, 400W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 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 EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 EN61000-3-2 EN61000-4-2 EN61000-4-3 EN61000-4-3 EN61000-4-5 EN61000-4-6 EN61000-4-1 (EN55024) Conditions/Description Full Load up to 50°C. See derating below.	1500 4.9 Min -20 -40	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	Max +70 +85	% MA VDC fpmh fpmh Units V/m ms Units °C °C

NOTES

Vibration

- 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.

1.5G

Doc. 40038 rev. 01 04/05

Hz



North America

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200



Medically Approved

Ultra-high efficiency 1U size



PLUG & PLAY POWER next generation power source

FEATURES

- UL2601-1 and EN60601-1 approved
- Less than 300µA leakage current
- 4000VAC isolation
- 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
- Few electrolytic capacitors (all long life)
- Visual LED indicators
- 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

The Xvite family of medically approved power supplies provides up to an incredible 1200W in an extremely compact 1U x 260 x 127mm package. Providing up to 12 isolated DC outputs, the Xvite family employs innovative plug & play architecture allowing users to instantly configure a custom power solution in less than 5 minutes!

The X_{vite} family consists of 4 *powerPacs* ranging in power levels from 400W to 1200W and 7 *powerMod* DC output modules. Simply select the appropriate *powerPac* and up to 6 powerMods from the tables below to complete your custom power supply.

The Xvite family boasts an industry leading power density of 15W/in³ and ultra-high efficiencies (up to 90%). The significant system space savings and reduced heat dissipation radically simplify system design.

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

powerMods

MODEL		Vnom			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 5.0	24.0 24.0	28.0 28.0	3A 3A	72W 72W

^{*}see datasheet powerMods for full output module specifications powerMod ratings when used with X_{vite} powerPac

powerPacs

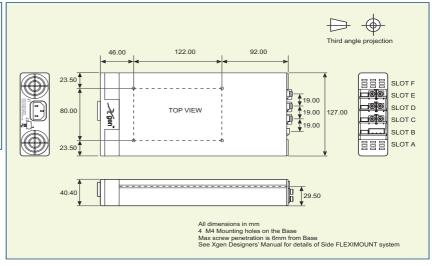
	MODEL	Watts
	XVA	400W
ite	XVB	700W
×	XVC	1000W
	XVD	1200W

EFFICIENCY (typical)

93 92 91 88 88 86 87 88 85 87 88 85 85 100 115 130 145 160 175 190 205 220 235 260 Line Voltage VAC



MECHANICAL SPECIFICATIONS



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

INPUT					
Parameter	Conditions/Decription	Min	Nom	Max	Units
Input Voltage Range	Universal Input	85	Non	264	VAC
input voltage Kange	Oniversal input	120		380	VDC
nput Frequency Range		47		63	Hz
Power Rating XVA		77		400	W
XVB				700	W
XVC	Derate linearly from 1000W at 100VAC to 850W at 85VAC			1000	W
XVD	Derate linearly from 1200W at 120VAC to 850W at 85VAC			1200	W
Input Current XVA	85VAC in 400W out		7.5	.200	A
XVB	85VAC in 700W out		9.5		Α
XVC, XVD	85VAC in 850W out		11.5		Α
Inrush Current	230VAC @ 25°C			20	Α
Undervoltage Lockout	Shutdown	70		78	VAC
Fusing XVA	250V		F8A HRC		
XVB	250V		F10A HRC		
XVC, XVD	250V		F12A HRC		
ОИТРИТ					
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 & Cross Regulation	For 25% to 75% load change			±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-pk
Overvoltage Protection	Two-level. 1st level: Vset Tracking. 2nd level: Vmax (Latching)	110		125	%
Overcurrent Protection	Straight line with hiccup activation at <30% of Vnom	110		120	%
	See powerMod datasheet and 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. XCA,XCB,XCC / XCD	20 / 15			ms
Output Isolation	Output to Output / Output to Chassis	500 / 500			VDC
GENERAL					
Parameter	Conditions/Description	Min	Nom	Max	Units
Isolation Voltage	Input to Output	4000			VAC
g-	Input to Chassis	1500			VAC
Efficiency	230VAC, 1200W @ 24V		90		%
Safety Agency Approvals	EN60601-1, UL2601-1, CSA601-1 UL File No. E230761				
Earth Leakage Current	250VAC, 60Hz, 25°C			300	μA
Signals	See Xgen Series datasheet				
Bias Supply	Always ON. Current 250mA	4.9	5.0	5.1	VDC
Bias Supply Reliability		4.9	5.0	5.1 1.0	VDC fpmh
	Always ON. Current 250mA	4.9	5.0		
•	Always ON. Current 250mA Failures per million hours at 25°C and full load powerMod	4.9	5.0	1.0	fpmh
Reliability EMC	Always ON. Current 250mA Failures per million hours at 25°C and full load powerMod See Designers' Manual. powerPac excludes fans powerPac	4.9		1.0	fpmh fpmh
Reliability EMC Parameter	Always ON. Current 250mA Failures per million hours at 25°C and full load powerMod	4.9	5.0	1.0	fpmh
Reliability EMC Parameter Emissions	Always ON. Current 250mA Failures per million hours at 25°C and full load powerMod See Designers' Manual. powerPac excludes fans powerPac Standard	4.9	Level	1.0	fpmh fpmh
Reliability EMC Parameter Emissions Conducted	Always ON. Current 250mA Failures per million hours at 25°C and full load See Designers' Manual. powerPac excludes fans Standard EN55011, EN55022, FCC	4.9	Level B	1.0	fpmh fpmh
Reliability EMC Parameter Emissions Conducted Radiated	Always ON. Current 250mA Failures per million hours at 25°C and full load See Designers' Manual. powerPac excludes fans Standard EN55011, EN55022, FCC EN55011, EN55022, FCC	4.9	Level B Level B	1.0	fpmh fpmh
Reliability EMC Parameter Emissions Conducted	Always ON. Current 250mA Failures per million hours at 25°C and full load See Designers' Manual. powerPac excludes fans Standard EN55011, EN55022, FCC	4.9	Level B Level B Compliant	1.0	fpmh fpmh
Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker and Fluctuation	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	4.9	Level B Level B	1.0	fpmh fpmh
Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker and Fluctuation	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	4.9	Level B Level B Compliant	1.0	fpmh fpmh
Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker and Fluctuation Immunity	Always ON. Current 250mA Failures per million hours at 25°C and full load See Designers' Manual. powerPac excludes fans Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 EN61000-3-3	4.9	Level B Level B Compliant Compliant	1.0	fpmh fpmh
Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker and Fluctuation Immunity Electrostatic Discharge	Always ON. Current 250mA Failures per million hours at 25°C and full load See Designers' Manual. powerPac excludes fans Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 EN61000-3-3 EN61000-4-2	4.9	Level B Level B Compliant Compliant	1.0	fpmh fpmh
Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker and Fluctuation Immunity Electrostatic Discharge Radiated RFI Fast Transients - burst	Always ON. Current 250mA Failures per million hours at 25°C and full load See Designers' Manual. powerPac excludes fans Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 EN61000-3-3 EN61000-4-2 EN61000-4-3	4.9	Level B Level B Compliant Compliant Level 4 Level 3	1.0	fpmh fpmh
Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker and Fluctuation Immunity Electrostatic Discharge Radiated RFI Fast Transients - burst Input Line Surges	Always ON. Current 250mA Failures per million hours at 25°C and full load See Designers' Manual. powerPac excludes fans Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 EN61000-3-3 EN61000-4-2 EN61000-4-3 EN61000-4-4	4.9	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4	1.0	fpmh fpmh
Reliability EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker and Fluctuation Immunity Electrostatic Discharge Radiated RFI Fast Transients - burst Input Line Surges Conducted RFI	Always ON. Current 250mA Failures per million hours at 25°C and full load See Designers' Manual. powerPac excludes fans 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	4.9	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4	1.0	fpmh fpmh Units
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	Always ON. Current 250mA Failures per million hours at 25°C and full load See Designers' Manual. powerPac excludes fans Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-6	4.9	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4	1.0	fpmh fpmh Units
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	Always ON. Current 250mA Failures per million hours at 25°C and full load See Designers' Manual. powerPac excludes fans 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 EN61000-4-11 (EN55024)		Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	1.0 0.6	fpmh fpmh Units V/m ms
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	Always ON. Current 250mA Failures per million hours at 25°C and full load See Designers' Manual. powerPac excludes fans Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 EN61000-3-3 EN61000-4-2 EN61000-4-3 EN61000-4-5 EN61000-4-5 EN61000-4-6 EN61000-4-11 (EN55024)	Min	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4	1.0 0.6	fpmh fpmh Units V/m ms Units
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	Always ON. Current 250mA Failures per million hours at 25°C and full load See Designers' Manual. powerPac excludes fans 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 EN61000-4-11 (EN55024)	Min -20	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	1.0 0.6	fpmh fpmh Units V/m ms Units C
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	Always ON. Current 250mA Failures per million hours at 25°C and full load See Designers' Manual. powerPac excludes fans Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 EN61000-3-2 EN61000-4-2 EN61000-4-5 EN61000-4-5 EN61000-4-6 EN61000-4-6 EN61000-4-1 (EN55024) Conditions/Description Full Load up to 50%. See derating below	Min	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	1.0 0.6	Units V/m ms
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	Always ON. Current 250mA Failures per million hours at 25°C and full load See Designers' Manual. powerPac excludes fans Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 EN61000-3-2 EN61000-4-2 EN61000-4-5 EN61000-4-5 EN61000-4-6 EN61000-4-6 EN61000-4-1 (EN55024) Conditions/Description Full Load up to 50%. See derating below 2.5% per °C above 50°C	Min -20 -40	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	Max +70 +85	fpmh fpmh Units V/m ms Units °C °C
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	Always ON. Current 250mA Failures per million hours at 25°C and full load See Designers' Manual. powerPac excludes fans Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 EN61000-3-2 EN61000-4-2 EN61000-4-5 EN61000-4-5 EN61000-4-6 EN61000-4-6 EN61000-4-1 (EN55024) Conditions/Description Full Load up to 50%. See derating below	Min -20	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	1.0 0.6	Units V/m ms 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.

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Medical Power Supply

User Configurable 1U size



PLUG & PLAY POWER next generation power source

FEATURES

- 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 Xlite

The X_{mite} family of medically approved power supplies provides up to 600W in a slimline 1U x 260 x 89mm package. The X_{mite} 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_{mite} family is the most flexible power supply in its class and brings affordable configurable power to the 200-600W medical market.

The X_{mite} 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. 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_{mite} 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		Vnom			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

^{*}see datasheet powerMods for full output module specifications powerMod ratings when used with Xmite powerPac

powerPacs

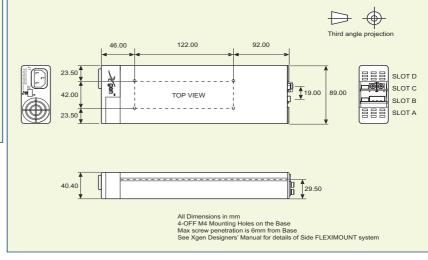
	MODEL	Watts
Φ	XMA	200W
mit	XMB	400W
×	XMC	600W

EFFICIENCY (typical)

93 92 91 % 90 \$\frac{2}{3}\$ 99 \$\frac{2}{3}\$ 90 \$\frac{2}{3}\$ 260 Line Voltage VAC

genseries

MECHANICAL SPECIFICATIONS



Parameter	Conditions/Description	Min	Nom	Max	Units
Input Voltage Range	Universal Input	85		264	VAC
		120		380	VDC
Input Frequency Range		47		63	Hz
Power Rating XMA				200	W
XMB				400	W
XMC	Derate linearly from 600W at 180VAC to 400W at 85VAC			600	W
Input Current XMA	85VAC in 200W out		4.0		Α
XMB	85VAC in 400W out		7.5		Α
XMC	85VAC in 400W out		7.5		Α
Inrush Current	230VAC @ 25°C			20	Α
Undervoltage Lockout	Shutdown	70		78	VAC
Fusing XMA	250V 5 x 20mm		F5A HRC		
XMB	250V 5 x 20mm		F8A HRC		
XMC	250V 5 x 20mm		F8A HRC		
OUTPUT	2001 0 / 2011111		· G/ · · · · · · ·		
	O and distance ID an animalian		Maria		11:4
Parameter	Conditions/Description	Min	Nom	Max	Unit
powerMod Power	As per powerMod table				
Output Adjustment Range	Manual: Multi-turn potentiometer. As per <i>powerMod</i> table				
Minimum I and	Electronic: See Xgen Designers' Manual				-
Minimum Load	5 100() () ()		0		A
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	% 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 powerMod datasheet and Designer's Manual for full details				
Remote Sense	Max. line drop compensation. (except Xg7, Xg8)			0.5	VDC
Overshoot	maxi iiio arep compensationi (except vig.), vige)			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
-	Output to Output 17 Output to Onassis	3007 300			VDC
GENERAL					
Parameter	Conditions/Description	Min	Nom	Max	Unit
Isolation Voltage	Input to Output	4000			VAC
	Input to Chassis	1500			VAC
Efficiency	230VAC, 400W @ 24V		89		%
Safety Agency Approvals	EN60601-1, UL2601-1, CSA601-1 UL File No. E230761				
Leakage Current	250VAC, 60Hz, 25°C			300	μA
Signals	See Xgen Series datasheet				
Bias Supply	Always ON. Current 250mA	4.9	5.0	5.1	VDC
Reliability	Failures per million hours at 25°C and full load powerMod	1.0	0.0	1.0	fpml
. conabiney	See Designers' Manual. powerPac excludes fans powerPac			0.5	fpml
ENO	powerr de choldes land powerr de			0.0	ipini
EMC					
Parameter	Standard		Level		Unit
Emissions		<u> </u>			
Conducted	EN55011, EN55022, FCC		Level B		
Radiated	EN55011, EN55022, FCC		Level B		
Harmonic Distortion	EN61000-3-2		Compliant		
Flicker and Fluctuation	EN61000-3-3		Compliant		
Immunity					+
Electrostatic Discharge	EN61000-4-2		Level 4		
Radiated RFI	EN61000-4-2 EN61000-4-3		Level 3		+
Fast Transients - burst	EN61000-4-3 EN61000-4-4		Level 3		+
					+
Input Line Surges	EN61000-4-5		Class 4		111.
Conducted RFI	EN61000-4-6		10		V/m
Voltage Dips	EN61000-4-11 (EN55024)		10		ms
ENVIRONMENTAL					
Parameter	Conditions/Description	Min	Nom	Max	Uni
	Full Load up to 50°C See derating below	-20	NOITI		
		-/()	1	+70	°C
	I dil Load up to 50 C. See defatting below				۰.
Operating Temperature Storage Temperature		-40		+85	°C
	2.5% per °C above 50°C				°C

Shock Vibration **NOTES**

Relative Humidity

- 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.

Non-condensing

1.5G

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%RH

Hz



3000 Bumps, 10G (16ms) half sine

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gen Series powerKit

Ultimate in Plug & Play Power

your dreams come true!



PLUG & PLAY POWER next generation power source

FEATURES

- · Make your own custom power supply!
- 1.5V to 58V standard output voltages
- Only available from Excelsys
- · Straight line or Foldback current limit
- · Output inhibit/enable control
- · Parallel powerMods for higher current
- · Series powerMods for higher voltages
- · Available in application specific kits

EACH powerKit CONTAINS

- One powerPac
- Seven powerMod dc output modules
- Xgen Designers' Manual
- Two pairs of parallel links (XP1)
- Two series links (XS1)
- · Power & Signal mating connectors
- · Quality posi screwdriver
- · Quality Voltage adjustment tool

The powerKit family from the Excelsys Xgen series brings user convenience to a new paradigm for system design engineers tasked with development of system power supply solutions. The powerKit contains an application specific powerPac chassis module, along with a selection of user installable plug-in powerMod dc output modules. Each powerMod can be simply plugged in, removed and exchanged offering a remarkably powerful flexible system solution. Truly, for system design engineers, your dreams come true!

The feature-rich *powerMods* provide a suite of output signals and user configurable functions increasing design-in flexibility. User configurable functions include local and remote adjusment, adjustable current limit, alternative current limiting technique and inhibit/enable functions.

Employing high efficiency conversion techniques, Xgen series powerMods and powerPacs have minimal power losses, while the advanced packaging makes the Xgen series the smallest power supply in the industry.

powerKits

MODEL	powerPac	Power	Application	Slots	Ref
XKC	Xcite	1200W	Standard	6	see Xcite datasheet
XKV	Xvite	1200W	Medical	6	see Xvite datasheet
XKH	Xhite	600W	Hi-Temp	6	see Xhite datasheet
XKQ	Xqite	900W	Low Noise	6	see Xqite datasheet
XKL	Xlite	600W	Standard	4	see Xlite datasheet
XKM	Xmite	600W	Medical	4	see Xmite datasheet

Each powerKit model contains ONE of each of the following powerMods

MODEL		Vnom				Type	Watts *
Xg1	1.5	2.5	3.6	50A	0A	Α	125W
Xg2	3.2	5.0	6.0	40A	0A	Α	200W
Xg3	6.0	12.0	15.0	20A	0A	Α	240W
Xg4	12.0	24.0	30.0	10A	0A	Α	240W
Xg5	28.0	48.0	58.0	6A	0A	Α	288W
Xg7	5.0	24.0	28.0	5A	0A	AB	120W
Xg8 V1 V2	5.0 5.0	24.0 24.0	28.0 28.0	3A 3A	0A 0A	B**	72W 72W

^{*}Derate at 2.5% per °C above 50°C up to 70°C (maximum operating temperature)

All powerKits are provided in an attractive rugged Xgen powerKit case specially designed for Excelsys to bring a new level of convenience to system engineers charged with power supply design.

USA

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^{**}See powerMod datasheets for details of powerMod types.