

AC/DC Power Supply

Ultra-high efficiency 1U size



PLUG & PLAY POWER next generation power source

FEATURES

- · 1.5V to 58V standard output voltages
- · 1340W available (See XCE datasheet)
- · 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 X_{cite} 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 $15W/\text{in}^3$ and efficiencies of up to 90%, the X_{cite} 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

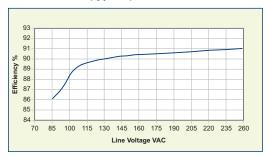
MODEL	Vmin	Vnom	Vmax	lmax	Watts
Xg1	1.5	2.5	3.6	50A	125W
Xg2	3.2	5.0	6.0	40A	200W
Xg3	6.0	12.0	15.0	20A	240W
Xg4	12.0	24.0	30.0	10A	240W
Xg5	28.0	48.0	58.0	6A	288W
Xg7	5.0	24.0	28.0	5A	120W
Xg8 V1 V2	5.0 5.0	24.0 24.0	28.0 28.0	3A 3A	72W 72W

powerPacs

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

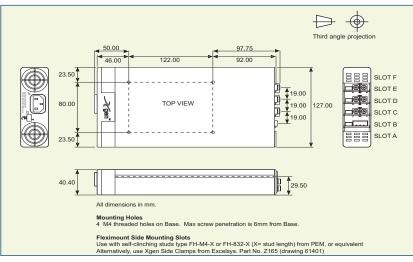
XCE 1340W See XCEdatasheet

EFFICIENCY (typical)



genseries

MECHANICAL SPECIFICATIONS



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

INPUT		Conditions/Passyintian	Baire	Nam	May	Hada
Parameter	. D	Conditions/Description	Min	Nom	Max	Units
Input Voltage	e Hange	Universal Input	85 120		264 380	VAC VDC
Input Freque	nov Pango		47		63	Hz
Power Rating			41		400	W
rowei natilit	XCB				700	W
	XCC	Derate linearly from 1000W at 100VAC to 850W at 85VAC			1000	W
	XCD	Derate linearly from 1200W at 120VAC to 850W at 85VAC			1200	W
Input Current		85VAC in 400W out		7.5	.200	A
	XCB	85VAC in 700W out		9.5		A
	XCC, XCD	85VAC in 850W out		11.5		A
Inrush Curre		230VAC @ 25°C		1110	25	A
Undervoltage	e Lockout	Shutdown	65		74	VAC
Fusing	XCA	250V		F8A HRC		
_	XCB	250V		F10A HRC		
	XCC, XCD	250V		F12A HRC		
OUTPUT	•					
Parameter		Conditions/Description	Min	Nom	Max	Units
powerMod Po		As per powerMod table				
Output Adjus	stment Range	Manual: Multi-turn potentiometer. As per <i>powerMod</i> table				
NAII I	1	Electronic: See Xgen Designers' Manual				Α.
Minimum Loa		F +100() () () ()		0		A
Line Regulati		For ±10% change from nominal line			±0.1	%
	s Regulation	For 25% to 75% load change			±0.2	%
Transient Re	sponse	For 25% to 75% load change Voltage Deviation			10	%
Dinni 111	laiaa	Settling Time			250	μs
Ripple and N		20MHz Bandwidth	110		1.0	% pk-p
Overvoltage		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			0.5	\/D0
Remote Sens	se	Max. line drop compensation. (except Xg7, Xg8)			0.5	VDC
Overshoot		5 401 (5 11 : 1			2	%
Turn-on Dela	ıy	From AC In / Enable signal			600 / 30	ms
Rise Time Hold-up Time	•	Monotonic For nominal output voltages at full load. XCA,XCB,XCC / XCD	20 / 15		5	ms
Output Isolat		Output to Output / Output to Chassis	500 / 500			ms VDC
<u> </u>	lion	Output to Output / Output to Chassis	300 / 300			VDC
GENERAL						
Parameter		Conditions/Description	Min	Nom	Max	Units
Isolation Volt	tage	Input to Output	3000			VAC
						VAC
	_	Input to Chassis	1500			
Efficiency		Input to Chassis 230VAC, 1200W @ 24V	1500	90		%
Efficiency Safety Agend	cy Approvals		1500	90		%
		230VAC, 1200W @ 24V	1500	90	1.5	% mA
Safety Agend Leakage Cur Signals		230VAC, 1200W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Xgen Series datasheet	1500	90	1.5	
Safety Agend Leakage Cur		230VAC, 1200W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Xgen Series datasheet Always ON. Current 250mA	4.8	90	1.5	
Safety Agend Leakage Cur Signals		230VAC, 1200W @ 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			5.2 0.98	mA
Safety Agend Leakage Cur Signals Bias Supply		230VAC, 1200W @ 24V EN60950, UL60950, CSA22.2 No.950 UL File No. E181875 250VAC, 60Hz, 25°C See Xgen Series datasheet Always ON. Current 250mA			5.2	mA VDC
Safety Agend Leakage Cur Signals Bias Supply Reliability		230VAC, 1200W @ 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			5.2 0.98	mA VDC fpmh
Safety Agend Leakage Cur Signals Bias Supply Reliability		230VAC, 1200W @ 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		5.0	5.2 0.98	mA VDC fpmh fpmh
Safety Agenc Leakage Cur Signals Bias Supply Reliability EMC Parameter		230VAC, 1200W @ 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			5.2 0.98	mA VDC fpmh
Safety Agenc Leakage Cur Signals Bias Supply Reliability EMC Parameter Emissions		230VAC, 1200W @ 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		5.0	5.2 0.98	mA VDC fpmh fpmh
Safety Agenc Leakage Cur Signals Bias Supply Reliability EMC Parameter Emissions Conducted		230VAC, 1200W @ 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		5.0 Level Level B	5.2 0.98	mA VDC fpmh fpmh
Safety Agend Leakage Cur Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated	rent	230VAC, 1200W @ 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		5.0 Level B Level B	5.2 0.98	mA VDC fpmh fpmh
Safety Agend Leakage Cur Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Dis	stortion	230VAC, 1200W @ 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		5.0 Level B Level B Compliant	5.2 0.98	mA VDC fpmh fpmh
Safety Agenc Leakage Cur Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Dis Flicker and F	stortion	230VAC, 1200W @ 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		5.0 Level B Level B	5.2 0.98	mA VDC fpmh fpmh
Safety Agenc Leakage Curr Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Dis Flicker and F	stortion Fluctuation	230VAC, 1200W @ 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 Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 EN61000-3-3		Level B Level B Compliant Compliant	5.2 0.98	mA VDC fpmh fpmh
Safety Agenc Leakage Cur Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Dis Flicker and F Immunity Electrostatic	stortion Fluctuation Discharge	230VAC, 1200W @ 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		Level B Level B Compliant Compliant Level 4	5.2 0.98	mA VDC fpmh fpmh
Safety Agency Leakage Cury Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Dis Flicker and Elmmunity Electrostatic Radiated RFI	stortion Fluctuation Discharge	230VAC, 1200W @ 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		Level B Level B Compliant Compliant Level 4 Level 3	5.2 0.98	mA VDC fpmh fpmh
Safety Agency Leakage Curry Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Dis Flicker and F Immunity Electrostatic Radiated RFI Fast Transier	stortion Fluctuation Discharge	230VAC, 1200W @ 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 EN61000-4-4		Level B Level B Compliant Compliant Level 4 Level 3 Level 4	5.2 0.98	mA VDC fpmh fpmh
Safety Agency Leakage Curr Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Dis Flicker and F Immunity Electrostatic Radiated RFI Fast Transier Input Line St	stortion Fluctuation Discharge I Ints - burst	230VAC, 1200W @ 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 EN61000-3-3 EN61000-4-2 EN61000-4-3 EN61000-4-5		Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4	5.2 0.98	MA VDC fpmh fpmh Units
Safety Agenc Leakage Cur Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Dis Flicker and F Immunity Electrostatic Radiated RFI Fast Transier Input Line St Conducted R	stortion Fluctuation Discharge Ints - burst urges	230VAC, 1200W @ 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 EN61000-4-5 EN61000-4-5 EN61000-4-6		Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4	5.2 0.98	MA VDC fpmh fpmh Units
Safety Agency Leakage Curr Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Dis Flicker and F Immunity Electrostatic Radiated RFI Fast Transier Input Line St Conducted R Voltage Dips	stortion Fluctuation Discharge I Ints - burst urges RFI	230VAC, 1200W @ 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 EN61000-3-3 EN61000-4-2 EN61000-4-3 EN61000-4-5		Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4	5.2 0.98	MA VDC fpmh fpmh Units
Safety Agency Leakage Curr Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Dis Flicker and F Immunity Electrostatic Radiated RFI Fast Transier Input Line St Conducted R Voltage Dips	stortion Fluctuation Discharge I Ints - burst urges RFI	230VAC, 1200W @ 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 EN61000-4-5 EN61000-4-5 EN61000-4-6		Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4	5.2 0.98	MA VDC fpmh fpmh Units
Safety Agency Leakage Curr Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Dis Flicker and F Immunity Electrostatic Radiated RFI Fast Transier Input Line St Conducted R Voltage Dips	stortion Fluctuation Discharge I Ints - burst urges RFI	230VAC, 1200W @ 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 EN61000-4-5 EN61000-4-5 EN61000-4-6		Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4	5.2 0.98	MA VDC fpmh fpmh Units
Safety Agend Leakage Curr Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Dis Flicker and F Immunity Electrostatic Radiated RFI Fast Transier Input Line St Conducted R Voltage Dips ENVIRONM Parameter	stortion Fluctuation Discharge I Ints - burst urges RFI	230VAC, 1200W @ 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 EN61000-4-11 (EN55024)	4.8	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	5.2 0.98 0.92	MA VDC fpmh fpmh Units
Safety Agency Leakage Curr Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Dis Flicker and Flimmunity Electrostatic Radiated RFI Fast Transier Input Line Su Conducted R Voltage Dips ENVIRONM Parameter Operating Te	stortion Fluctuation Discharge I Ints - burst urges RFI IENTAL	230VAC, 1200W @ 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 EN61000-4-11 (EN55024)	4.8 Min	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	5.2 0.98 0.92	MA VDC fpmh fpmh Units V/m ms
Safety Agency Leakage Cury Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Dis Flicker and F Immunity Electrostatic Radiated RFI Fast Transier Input Line St Conducted R Voltage Dips ENVIRONM Parameter Operating Te Storage Tem	stortion Fluctuation Discharge I Ints - burst urges RFI IENTAL	230VAC, 1200W @ 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 EN61000-4-2 EN61000-4-5 EN61000-4-6 EN61000-4-6 EN61000-4-11 (EN55024) Conditions/Description	4.8 Min -20	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	5.2 0.98 0.92	mA VDC fpmh fpmh Units V/m ms Units C
Safety Agend Leakage Curr Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Dis Flicker and F Immunity Electrostatic Radiated RFI Fast Transier Input Line St Conducted R Voltage Dips ENVIRONM Parameter	stortion Fluctuation Discharge Ints - burst BERFI BENTAL DEMPERATURE DEFINITION DEFINITI	230VAC, 1200W @ 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 EN61000-4-11 (EN55024)	4.8 Min -20	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	5.2 0.98 0.92	mA VDC fpmh fpmh Units V/m ms Units C
Safety Agency Leakage Cury Signals Bias Supply Reliability EMC Parameter Emissions Conducted Radiated Harmonic Dis Flicker and Electrostatic Radiated RFI Fast Transier Input Line St Conducted RVoltage Dips ENVIRONM Parameter Operating Testorage Tem Derating	stortion Fluctuation Discharge Ints - burst BERFI BENTAL DEMPERATURE DEFINITION DEFINITI	230VAC, 1200W @ 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 EN61000-3-2 EN61000-4-2 EN61000-4-2 EN61000-4-5 EN61000-4-5 EN61000-4-6 EN61000-4-11 (EN55024) Conditions/Description 1.6% per °C above 40°C. See Designers Manual for full deratings	Min -20 -40	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	5.2 0.98 0.92 Max +70 +85	mA VDC fpmh fpmh Units V/m ms Units °C °C

NOTES

Vibration

- 1.5G 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.



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Doc. 40032 rev. 08 11/09

Hz

200

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.

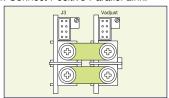
Voltage Adjustment - Remote (resistive / electronic)

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. To parallel connect outputs:

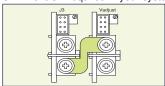
- 1. Switch on IShare switch to ON on powerMods.
- 2. Connect Negative parallel link.
- 3. Adjust output voltages of powerMods to within 5mV of eachother.
- 4. Connect Positive Parallel Link.



Parallel Links available to order. 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.



Series Links available. 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

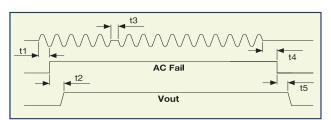
The output current limit setting may be adjusted (downwards only) by means of an external resistor connection to the I trim pin.

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 Fai

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.

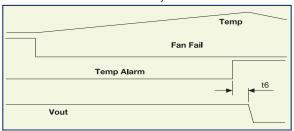


Temperature Alarm (Option 01)

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)

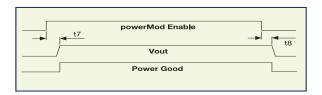
Open collector signal indicating that at least one of the system fans have failed. This does not cause system shutdown.



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.

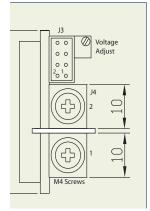
Signal Connector Pinout

Pin	J2 (powerPac)	J3 (powerMod)	J3 (powerMod)
		Type A	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

Signal Connector Pinout

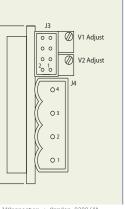
TYPE A Xg1-Xg7



J4 Connector : M4 Screw

J3 Connector Mating Connector Housing: Locking Molex 51110-0860 Non Locking Molex 51110-0850 Crimp Termnal: Molex p/n 50394

TYPE B: Xg8



J4Connector : Camden 9200/4A

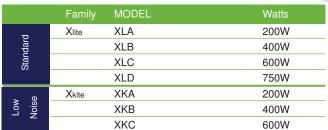
J3 Connector Mating Connector Housing: Locking Molex 51110-0860 Non Locking Molex 51110-0850 Crimp Termnal: Molex p/n 50394

See Xgen series Designers' Manual for full signal connector details.

3









			Family	MODEL	Watts
Med			Xmite	XMA	200W
				XMB	400W
				XMC	600W
				XMD	750W
	ο –		Xrite	XRA	200W
Low	Low Noise Med	Med		XRB	400W
				XRC	600W

powerPacs (6slot package, 127mm wide)

	Family	MODEL	Watts
	Xcite	XCA	400W
ard		XCB	700W
Standard		XCC	1000W
が		XCD	1200W
		XCE	1340W
High Temp	Xhite	XHA	400W
		XHB	600W
Low	Xqite	XQA	400W
		XQB	900W
		XQC	1200W

	Family	MODEL	Watts
	Xvite	XVA	400W
_		XVB	700W
Med		XVC	1000W
		XVD	1200W
		XVE	1340W
- O —	Xzite	XZA	400W
Low Noise Med		XZB	900W
		XZC	1200W

powerMods (for use with all powerPac models)

MODEL		nin(4)	Vnom	Vmax(4)	lmax	Watts
	Vtrim	Vpot				
Xg1	1.0	1.5	2.5	3.6	50A	125W
Xg2	1.5	3.2	5.0	6.0	40A	200W
Xg3	4.0	6.0	12.0	15.0	20A	240W
Xg4	8.0	12.0	24.0	30.0	10A	240W
Xg5	8.0	24.0	48.0	58.0	6A	288W
Xg7	5.0	5.0	24.0	28.0	5A	120W
Xg8 v1	5.0	5.0	24.0	28.0	3A	72W
V2	5.0	5.0	24.0	28.0	3A	72W

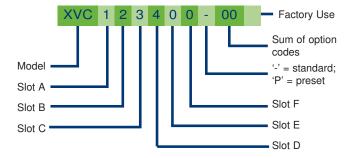


Part Numbering

Configured Units may be specified and ordered using the part numbering system shown opposite. For example, part number XVC123400-00 specifies the following 1000W medical power supply.

XVC-00 powerPac 1000W medically approved powerPac

Xg1 2.5V @ 50A powerMod Xg2 5V @ 40A powerMod Xg3 12V @ 20A powerMod 24V @ 10A powerMod Xg4



Accessories .

PowerMods can be parallel connected for higher current and series connected for higher voltages. Configured units will have parallel and series links fitted as required.



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