



## Slimline Power Supply

User Configurable 1U size



patents pending



Low Noise

### PLUG & PLAY POWER next generation power source

#### FEATURES

- Low Acoustic Noise 54dBA
- 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

- Audio Equipment
- Test and measurement
- Telecommunications
- For Medical applications see Xrite

The Xkite family of low noise power supplies provides up to 400W in a slimline 1U x 260 x 89mm package. Providing up to 8 isolated outputs, the Xkite family is the most flexible power supply in its class and brings affordable configurable power to the 200-600W market.

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

The Xkite family consists of 2 *powerPac* models in 200W and 400W power levels. Each *powerPac* model may be populated with up to 4 *powerMods* selected from the table of *powerMods* shown below.

All configurations carry full safety agency approvals, UL60950, EN60950 and are CE marked. For alternative power interfaces contact [support@excelsys.com](mailto:support@excelsys.com)

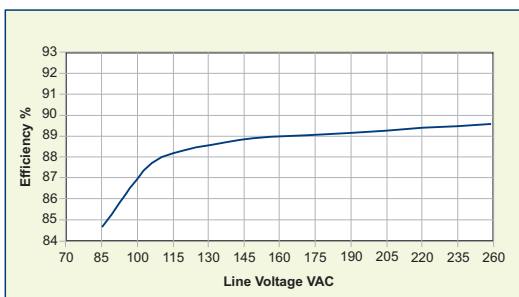
#### powerMods

MODEL	Vmin	Vnom	Vmax	I <sub>max</sub>	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	24.0	3A	72W
	v2	5.0	24.0	3A	72W

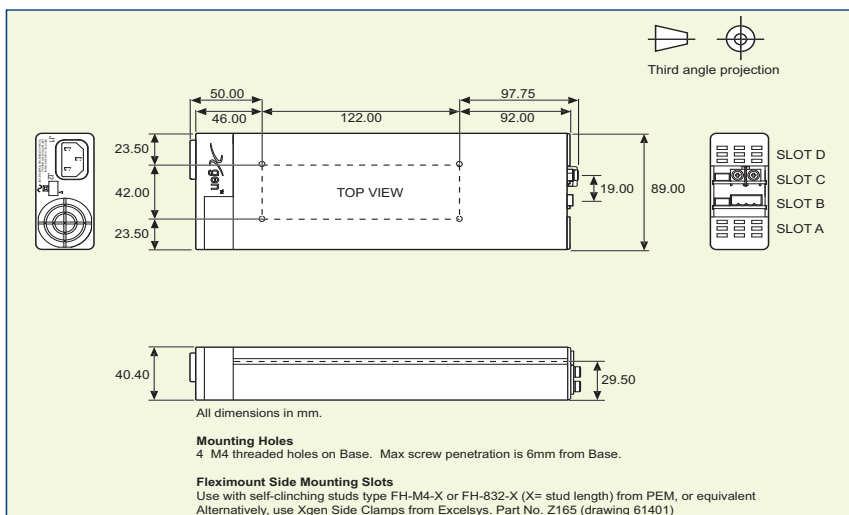
#### powerPacs

	MODEL	Watts
Xkite	XKA	200W
	XKB	400W

#### EFFICIENCY (typical)



#### MECHANICAL SPECIFICATIONS



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

5INPUT							
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	XKA					200	W
	XKB					400	W
Input Current	XKA	85VAC in 200W out			4.5		A
	XKB	85VAC in 400W out					5.5
Inrush Current		230VAC @ 25°C				50	A
Undervoltage Lockout		Shutdown		65		74	VAC
Fusing	XKA	250V 5 x 20mm			F5A HRC	F6.3A HRC	
	XKB	250V 5 x 20mm					
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		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 Settling Time			10	%
						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 See Designer's Manual for full details		110		120	%
Remote Sense		Max. line drop compensation. (except Xg7, Xg8)				0.5	VDC
Overshoot						2	%
Turn-on Delay		From AC In / Enable signal				300 / 30	ms
Rise Time		Monotonic				5	ms
Hold-up Time		For nominal output voltages at full load		20			ms
Output Isolation		Output to Output / Output to Chassis		500 / 500			VDC
GENERAL							
Parameter		Conditions/Description		Min	Nom	Max	Units
Isolation Voltage		Input to Output		3000			VAC
		Input to Chassis		1500			VAC
Efficiency		230VAC, 400W @ 24V			89		%
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				0.5	fpmh
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							
Electrostatic Discharge		EN61000-4-2		Level 4			
Radiated RFI		EN61000-4-3		Level 3			
Fast Transients - burst		EN61000-4-4		Level 4			
Input Line Surges		EN61000-4-5		Class 4			
Conducted RFI		EN61000-4-6		10		V/m	
Voltage Dips		EN61000-4-11 (EN55024)		10		ms	
ENVIRONMENTAL							
Parameter		Conditions/Description		Min	Nom	Max	Units
Operating Temperature				-20		+70	°C
Storage Temperature				-40		+85	°C
Derating		2.5% per °C above 40°C. See Designers Manual for full deratings					
Relative Humidity		Non-condensing		5		95	%RH
Acoustic Noise		Background noise 28.6dBA, Noise measured 1m from unit			54		dBA
Shock		3000 Bumps, 10G (16ms) half sine					
Vibration		1.5G		10		200	Hz

**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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