

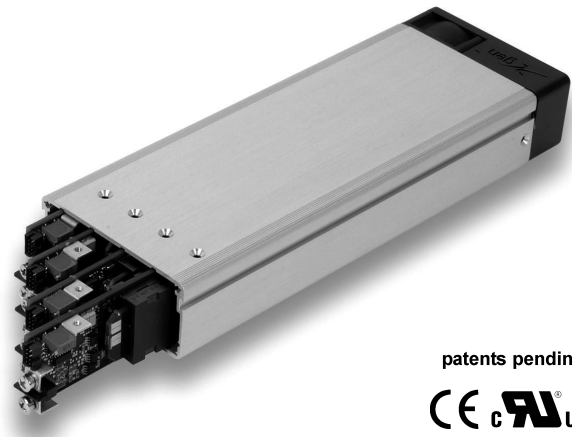
Low Noise AC/DC Plug & Play Power Supply Series 200W-400W

Xkite

200 W / 400 W

AC/DC Low Noise Slimline Power Supply
User Configurable 1U size

- 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



patents pending



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 Zentro-Elektrik.

powerMods*

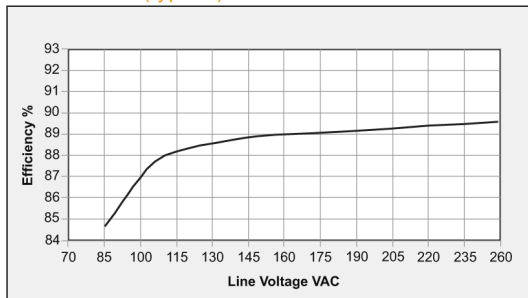
MODEL	Vmin	Vnom	Vmax	Imax	Watts*
Xg1	1.5	2.5	3.6	50A	125W
Xg2	3.2	5.0	6.0	40A	200W
Xg3	6.0	12.0	15.0	20A	240W
Xg4	12.0	24.0	30.0	10A	240W
Xg5	28.0	48.0	58.0	6A	288W
Xg7	5.0	24.0	28.0	5A	120W
Xg8	v1	5.0	24.0	3A	72W
	v2	5.0	24.0	3A	72W

powerPacs

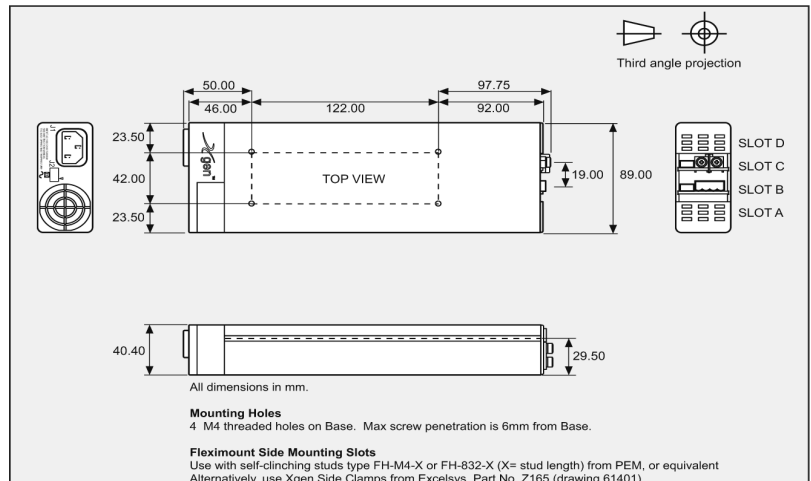
	MODEL	Watts
Xkite	XKA	200W
	XKB	400W

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

EFFICIENCY (typical)



MECHANICAL SPECIFICATIONS



AC/DC Einbaunetzgeräte

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

INPUT					
Parameter	Conditions/Description	Min	Nom	Max	Unit s
Input Voltage Range	Universal Input	85		264	VAC
		120		380	VDC
Input Frequency Range		47		63	Hz
				200	W
Power Rating	XKA			400	W
	XKB				W
Input Current	XKA	85VAC in 200W out	4.5		A
	XKB	85VAC in 400W out	5.5		A
Inrush Current	230V AC @ 25°C			50	A
Undervoltage Lockout	Shut down	65		74	VAC
Fusing	XKA	250V 5 x 20mm		F5A HRC	
	XKB	250V 5 x 20mm		F6.3A HRC	
OUTPUT					
Parameter	Conditions/Description	Min	Nom	Max	Unit s
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			10	%
	Voltage Deviation 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 See powerMod datasheet and 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 volt ages at full load	20			ms
Output Isolation	Output to Output / Output to Chassis	500 / 500			VDC
GENERAL					
Parameter	Conditions/Description	Min	Nom	Max	Unit s
Isolation Voltage	Input to Output	3000			VAC
	Input to Chassis	1500			VAC
Efficiency	230V AC, 400W @ 24V		89		%
Safety Agency Approvals	EN60950, UL60950, CSA22.2 No.950 UL File No. E181875				
Leakage Current	250V AC, 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			1.0	fpmh
	See Designers' Manual. powerPac excludes fans powerMod powerPac			0.5	fpmh
EMC					
Parameter	Standard	Level			Unit s
Emissions					
Conducted	EN5501 1, EN55022, FCC		Level B		
Radiated	EN5501 1, 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	EN61000-4-1 1 (EN55024)		10		ms
ENVIRONMENTAL					
Parameter	Conditions/Description	Min	Nom	Max	Unit s
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

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.