

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 X_{vite} 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.

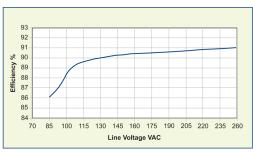
powerMods

MODEL					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

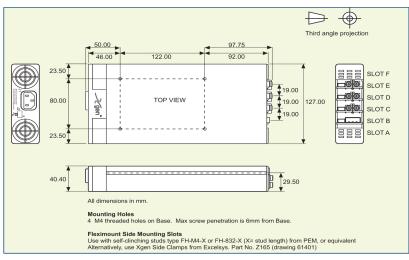
	MODEL	Watts
Xvite	XVA	400W
	XVB	700W
	XVC	1000W
	XVD	1200W

EFFICIENCY (typical)



genseries

MECHANICAL SPECIFICATIONS



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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		264	VAC
		120		380	VDC
nput Frequency Range		47		63	Hz
Power Rating XVA				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		Α
XVB	85VAC in 700W out		9.5		Α
XVC, XVD	85VAC in 850W out		11.5		A
Inrush Current	230VAC @ 25°C			25	A
Undervoltage Lockout	Shutdown	65	FOA LIDO	74	VAC
Fusing XVA	250V		F8A HRC		
XVB XVC, XVD	250V 250V		F10A HRC		
· · · · · · · · · · · · · · · · · · ·	250 V		F12A HRC		
OUTPUT					
Parameter	Conditions/Description	Min	Nom	Max	Units
powerMod Power	As per <i>powerMod</i> 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	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 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	1.0	- Trust	VAC
iooiation voltage	Input to Chassis	1500			VAC
Efficiency	230VAC, 1200W @ 24V	1000	90		%
Safety Agency Approvals	EN60601-1, UL2601-1, CSA601-1 UL File No. E230761				,,,
Earth Leakage Current	250VAC, 60Hz, 25°C			300	μΑ
Signals	See Xgen Series datasheet			000	par t
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		0.0	1.0	fpmh
,	See Designers' Manual. powerPac excludes fans powerPac			0.6	fpmh
EMC					'
	Observational		1		11-11-
Parameter	Standard		Level		Units
Emissions	ENERGIA ENERGOO EGO				
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	ENC1000 4 0		Lavel 4		
	EN61000-4-2		Level 4		
Radiated RFI	EN61000-4-3 EN61000-4-4		Level 3		
Fast Transients - burst			Level 4		
Input Line Surges Conducted RFI	EN61000-4-5 EN61000-4-6		Class 4 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	.€
Derating	1.6% per °C above 40°C. See Designers Manual for full deratings	1.5			
Relative Humidity	Non-condensing	5		95	%RH
Shock	3000 Bumps, 10G (16ms) half sine				
Vibration	1.5G	10		200	Hz
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- 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.

