

Excellent Integrated System Limited

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Excelsys Technologies Ltd Z165

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>



Distributor of Excelsys Technologies Ltd: Excellent Integrated System Limited Datasheet of Z165 - MOUNTING CLIP FOR ULTIMOD

AC/DC Plug & Play Power Supply Series 400W-1200W

cite

AC/DC Power Supply

Ultra-high efficiency 1U size

PLUG & PLAY POWER next generation power source

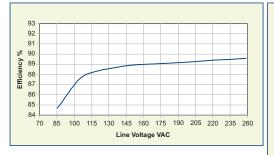
FEATURES

- 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

EFFICIENCY (typical)





patents pending

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/in³ 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.

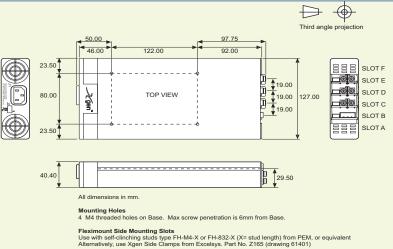
All configurations carry full safety agency approvals, UL60950, EN60950 and are CE marked. For alternative power interfaces contact support@excelsys.com

powerM	ods				
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
ite	XCA	400W
	XCB	700W
×	XCC	1000W
	XCD	1200W

MECHANICAL SPECIFICATIONS



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400W-1200W AC/DC Plug & Play Power Supply Series

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

INPUT Parameter	Conditions/Description	Min	Nom	Мах	Units
Input Voltage Range	Universal Input	85		264	VAC
input voltage hange	Oniversal input	120		380	VDC
Input Frequency Range		47		63	Hz
Power Rating XCA		.,		400	W
XCB				700	Ŵ
XCC	Derate linearly from 1000W at 100VAC to 850W at 85VAC			1000	Ŵ
XCD	Derate linearly from 1200W at 120VAC to 850W at 85VAC			1200	Ŵ
Input Current XCA	85VAC in 400W out		7.5	1200	A
ХСВ	85VAC in 700W out		9.5		A
XCC. XCD	85VAC in 850W out		11.5		A
Inrush Current	230VAC @ 25°C		11.5	25	A
Undervoltage Lockout	Shutdown	65		74	VAC
Fusing XCA	250V	00	F8A HBC	17	\$710
XCB	250V		F10A HRC		
XCC, XCD	250V		F12A HRC		
	2007		112/(1110		
OUTPUT					
Parameter	Conditions/Description	Min	Nom	Мах	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-p
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 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	Marra	Max	Units
	Conditions/Description	Min	Nom	Max	
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		1.0	fpmh
	See Designers' Manual. powerPac excludes fans powerPac			0.6	fpmh
EMC					fpmh
EMC Parameter			Level		fpmh Units
Parameter	See Designers' Manual. <i>powerPac</i> excludes fans <i>powerPac</i>		Level		
Parameter Emissions	See Designers' Manual. <i>powerPac</i> excludes fans <i>powerPac</i> Standard				
Parameter Emissions Conducted	See Designers' Manual. powerPac excludes fans powerPac Standard EN55011, EN55022, FCC		Level B		
Parameter Emissions Conducted Radiated	See Designers' Manual. powerPac excludes fans powerPac Standard EN55011, EN55022, FCC EN55011, EN55022, FCC		Level B Level B		
Parameter Emissions Conducted Radiated Harmonic Distortion	See Designers' Manual. powerPac excludes fans powerPac Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2		Level B Level B Compliant		
Parameter Emissions Conducted Radiated Harmonic Distortion Flicker and Fluctuation	See Designers' Manual. powerPac excludes fans powerPac Standard EN55011, EN55022, FCC EN55011, EN55022, FCC		Level B Level B		
Parameter Emissions Conducted Radiated Harmonic Distortion Flicker and Fluctuation Immunity	See Designers' Manual. powerPac excludes fans powerPac Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 EN61000-3-3		Level B Level B Compliant Compliant		
Parameter Emissions Conducted Radiated Harmonic Distortion Flicker and Fluctuation Immunity Electrostatic Discharge	See Designers' Manual. powerPac excludes fans powerPac Standard		Level B Level B Compliant Compliant Level 4		
Parameter Emissions Conducted Radiated Harmonic Distortion Flicker and Fluctuation Immunity Electrostatic Discharge Radiated RFI	See Designers' Manual. powerPac excludes fans powerPac Standard		Level B Level B Compliant Compliant Level 4 Level 3		
Parameter Emissions Conducted Radiated Harmonic Distortion Flicker and Fluctuation Immunity Electrostatic Discharge Radiated RFI Fast Transients - burst	See Designers' Manual. powerPac excludes fans powerPac Standard		Level B Level B Compliant Compliant Level 4 Level 3 Level 4		
Parameter Emissions Conducted Radiated Harmonic Distortion Flicker and Fluctuation Immunity Electrostatic Discharge Radiated RFI Fast Transients - burst Input Line Surges	See Designers' Manual. powerPac excludes fans powerPac Standard		Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4		Units
Parameter Emissions Conducted Radiated Harmonic Distortion Flicker and Fluctuation Immunity Electrostatic Discharge Radiated RFI Fast Transients - burst Input Line Surges Conducted RFI	See Designers' Manual. powerPac excludes fans powerPac Standard		Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10		Units
Parameter Emissions Conducted Radiated Harmonic Distortion Flicker and Fluctuation Immunity Electrostatic Discharge Radiated RFI Fast Transients - burst Input Line Surges Conducted RFI Voltage Dips	See Designers' Manual. powerPac excludes fans powerPac Standard		Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4		Units
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	See Designers' Manual. powerPac excludes fans powerPac Standard		Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10	0.6	Units
Parameter Emissions Conducted Radiated Harmonic Distortion Flicker and Fluctuation Immunity Electrostatic Discharge Radiated RFI Fast Transients - burst Input Line Surges Conducted RFI Voltage Dips	See Designers' Manual. powerPac excludes fans powerPac Standard	Min	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10		Units
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	See Designers' Manual. powerPac excludes fans powerPac Standard	Min 20	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	0.6	Units Units V/m ms Units
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	See Designers' Manual. powerPac excludes fans powerPac Standard		Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	0.6	Units Units
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	See Designers' Manual. powerPac excludes fans powerPac Standard	-20	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	0.6	Units V/m Ms Units
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	See Designers' Manual. powerPac excludes fans powerPac Standard	-20	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	0.6	Units V/m ms Units
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	See Designers' Manual. powerPac excludes fans powerPac Standard	-20 -40	Level B Level B Compliant Compliant Level 4 Level 3 Level 4 Class 4 10 10	0.6	Units Units V/m ms Units °C °C

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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Doc. 40032 rev. 05 08/07

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