UX SERIES

AC/DC Modular Power Supplies: 400-1200W Watts







FEATURES & OPTIONS

- · Dual Safety Approvals
 - UL/EN60950 2nd edition
 - UL/EN60601-1 3rd edition
- Highest Efficiency up to 91%
- User & Field Configurable
- · Standard Medical Features
 - Leakage Current <300µA (<150µA optional)
 - 2 MOPP
 - 4KV Isolation
- Lowest Acoustic Noise
- -40°C Startup Temperature
- Extra Ruggedised Optional
- Shock: >60G's
- Vibration: MIL STD-810G
- No Minimum Load
- Extra low profile <1U height
- All outputs fully floating
- · Series / Parallel of multiple outputs
- 5V Isolated standby voltage
- Active PFC (Power Factor Correction)
- Product Options: Conformal Coating, Low Leakage Current, Connector, Cabling & Mounting options and Reverse Fans Additional Ruggedisation

TYPICAL APPLICATIONS

- Medical; Clinical diagnostic equipment, Medical lasers, Dialysis equipment, Radiological Imaging, Clinical Chemistry
- Industrial; Test and Measurement, Industrial Machines, Automation equipment, Printing, Telecommunications, Audio equipment



Description

The UltiMod Series from Excelsys - the *Ultimate* range of Modular Configurable Power Supplies provides up to 1200W output power in a compact 1U form factor. The series is designed for *highest efficiencies* and consists of two Input AC front ends (*powerPacs*), UX4 and UX6 and a wide range of DC output modules (XgA-XgL & Xg1-Xg8).

Both *powerPacs* carry *dual safety certification*, EN60950 for Industrial Applications and EN60601-1 3rd Edition for Medical Applications. The UX4 delivers up to 600W and can be populated with up to 4 *powerMods*, the UX6 delivers up to 1200W and can be populated with up to 6 *powerMods*.

The *powerMods* provide up to 12 fully isolated DC outputs ranging from 1.15V to 58V. Users can select the modules most suitable for their application based on power level and/or desired control feature set. The series provides *unique levels of flexibility* and is completely user field configurable. Customers can configure any combination of *powerMods* in series/parallel. This unique flexibility combined with our Industry leading *5 Year Warranty* minimises the total cost of ownership for our customers.

PowerPacs

	Model	Slots	Power	Medical Approval UL/EN60601-1 3rd edition	Industrial Approval UL/EN60950 2nd edition
X	UX4	4	600W	Yes	Yes
	UX6	6	1200W	Yes	Yes

Power Modules

Model	Vnom (V)	Set Point Adjust Range (V)	Dynamic Vtrim Range (V)	lmax (A)	Power (W)	Remote Sense	Power Good
XgA	12.0	10.8-15.6	-	12.5	150	-	-
XgB	24.0	19.2-26.4	-	8.3	200	-	-
XgC	36.0	28.8-39.6	-	5.6	200	-	-
XgD	48.0	38.5-50.4	-	4.2	200	-	-
XgE/Xg7	24.0	5.0-28.0	-	5.0	120	-	Yes
XgF/Xg8	24.0	5.0-28.0	-	3.0	72	-	Yes
	24.0	5.0-28.0	-	3.0	72	-	Yes
XgG	2.5	1.5-3.6	1.15-3.6	40.0	100	Yes	Yes
XgH	5.0	3.2-6.0	1.5-6.0	36.0	180	Yes	Yes
XgJ	12.0	6.0-15.0	4.0-15.0	18.3	220	Yes	Yes
XgK	24.0	12.0-30.0	8.0-30.0	9.2	220	Yes	Yes
XgL	48.0	28.0-58.0	8.0-58.0	5.0	240	Yes	Yes
Xg1	2.5	1.5-3.6	1.15-3.6	50.0	125	Yes	Yes
Xg2	5.0	3.2-6.0	1.5-6.0	40.0	200	Yes	Yes
Xg3	12.0	6.0-15.0	4.0-15.0	20.0	240	Yes	Yes
Xg4	24.0	12.0-30.0	8.0-30.0	10.0	240	Yes	Yes
Xg5	48.0	28.0-58.0	8.0-58.0	6.0	288	Yes	Yes

Notes:

- 1. Optional "Extra Wide Trim" and "Reactive Load" powerMods, contact our office.
- 2. For complete "Designers Manual, please click on link below.

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UX SERIES

AC/DC Modular Power Supplies: 400-1200W Watts



INPUT					
Parameter	Conditions/Decription	Min	Nom	Max	Units
Input Voltage Range	Universal Input 47-440Hz	85		264	VAC
Power Rating	UX4: See derating curves	120	600	380	VDC W
Fower Rating	UX6: See derating curves		1200		W
Input Current UX4	85VAC in 400W out		7.5		A
UX6	85VAC in 850W out		11.5		
Inrush Current	230VAC @ 25°C UX6/UX4			25/50	Α
Undervoltage Lockout	Shutdown	65		74	VAC
Power Factor	110 VAC @ Full Load	0.98	0.99		
Fusing UX4	250V		F8A HRC		
OUTPUT UX6	250V		F12A HRC		
Parameter	Conditions/Description	Min	Nom	Max	Units
powerMod Power Output Adjustment Range	As per powerMod table Manual: Multi-turn potentiometer. As per powerMod table				
Output Adjustment Range	Dynamic: As per <i>powerMod</i> table				
Minimum Load	Byflatfile. As per powerfillou table		0		Α
Load & Cross Regulation	For 25% to 75% load change		- U	±0.2	%
Transient Response	For 25% to 75% load change: Voltage Deviation; XgA-XgD			2.5	%
-	Settling Time: XgA-XgD			500	μs
	Voltage Deviation: XgE-XgL, Xg1-Xg8			10	%
	Settling Time: XgE-XgL			250	μs
Ripple and Noise	20MHz 100mV or 1.0% pk-pk (except 150mV XgA)	46-		4=-	0.
Overvoltage Protection	Latching	105		170	%
Overcurrent Protection	Straight line with hiccup activation at <30% of Vnom. For ±10% change from nominal line	105		170 ±0.1	%
Line Regulation					
Remote Sense Overshoot	Max. line drop compensation (except XgA, B, C, D, E, F)			0.5 2	VDC %
Rise Time	Monotonic		15		ms
Turn-on Delay	From AC in and Global Enable		700		ms
20.2,	powerMod Enable		2		ms
Hold-up Time	For nominal output voltages at full load.	15		20	ms
Output Isolation	Output to Output/Output to Chassis	500 / 500			VDC
GENERAL					
Parameter	Conditions/Description	Min	Nom	Max	Units
			Nom	WIGA	
Isolation Voltage	Input to Output	4000 1500			VAC VAC
Efficiency	Input to Chassis 230VAC, 1200W @ 24V	1500	90	91	%
Safety Agency Approvals	EN60601-1 3rd Edition, UL60601-1, CSA601, UL File No. E230761		90	91	70
oulety Agency Approvais	EN60950 2nd Edition, CSA C22.2 No. 60950-1, UL File No.E181875				
Leakage Current	250VAC. 60Hz. 25°C			300	μA
	250VAC, 60Hz, 25°C (Option 04)			150	μA
Weight	See weight calculators on Excelsys website				
Signals	See section 4.9				
Bias Supply	Always on, current 500mA	4.8	5.0	5.2	VDC
Reliability	Failures per million hours at 40°C and full load powerMod				fpmh
	· ·			0.958	
	See Section 7.1 . powerPac excludes fans powerPac	0=0		0.958 0.92	fpmh
MIRL	See Section 7.1 . powerPac excludes fans powerPac UX4 with two XgA's @ full load.Telecordia SR-332 , Issue 1 May 2001,	670			
	See Section 7.1 . powerPac excludes fans powerPac	670			fpmh
ЕМС	See Section 7.1 . powerPac excludes fans powerPac UX4 with two XgA's @ full load.Telecordia SR-332 , Issue 1 May 2001, ground benign, ambient temperature of 40°C	670			fpmh kHours
EMC Parameter	See Section 7.1 . powerPac excludes fans powerPac UX4 with two XgA's @ full load.Telecordia SR-332 , Issue 1 May 2001,	670	Level		fpmh
EMC Parameter Emissions	See Section 7.1 . powerPac excludes fans powerPac UX4 with two XgA's @ full load.Telecordia SR-332 , Issue 1 May 2001, ground benign, ambient temperature of 40°C Standard	670			fpmh kHours
EMC Parameter Emissions Conducted	See Section 7.1 . powerPac excludes fans powerPac UX4 with two XgA's @ full load.Telecordia SR-332 , Issue 1 May 2001, ground benign, ambient temperature of 40°C Standard EN55011, EN55022, FCC	670	Class B		fpmh kHours
EMC Parameter Emissions Conducted Radiated	See Section 7.1 . powerPac excludes fans powerPac UX4 with two XgA's @ full load.Telecordia SR-332 , Issue 1 May 2001, ground benign, ambient temperature of 40°C Standard EN55011, EN55022, FCC EN55011, EN55022, FCC	670	Class B Class B		fpmh kHours
EMC Parameter Emissions Conducted Radiated Harmonic Distortion	See Section 7.1 . powerPac excludes fans powerPac UX4 with two XgA's @ full load.Telecordia SR-332 , Issue 1 May 2001, ground benign, ambient temperature of 40°C Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 Class A	670	Class B Class B Compliant		fpmh kHours
EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation	See Section 7.1 . powerPac excludes fans powerPac UX4 with two XgA's @ full load.Telecordia SR-332 , Issue 1 May 2001, ground benign, ambient temperature of 40°C Standard EN55011, EN55022, FCC EN55011, EN55022, FCC	670	Class B Class B		fpmh kHours
EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation	See Section 7.1 . powerPac excludes fans powerPac UX4 with two XgA's @ full load.Telecordia SR-332 , Issue 1 May 2001, ground benign, ambient temperature of 40°C Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 Class A EN61000-3-3	670	Class B Class B Compliant Compliant		fpmh kHours
EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation Immunity Electrostatic Discharge	See Section 7.1 . powerPac excludes fans powerPac UX4 with two XgA's @ full load.Telecordia SR-332 , Issue 1 May 2001, ground benign, ambient temperature of 40°C Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 Class A EN61000-3-3 EN61000-4-2	670	Class B Class B Compliant Compliant Level 2		fpmh kHours
EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation Immunity Electrostatic Discharge Radiated Immunity	See Section 7.1 . powerPac excludes fans powerPac UX4 with two XgA's @ full load.Telecordia SR-332 , Issue 1 May 2001, ground benign, ambient temperature of 40°C Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 Class A EN61000-3-3 EN61000-4-2 EN61000-4-3	670	Class B Class B Compliant Compliant Level 2 Level 3		fpmh kHours
EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation Immunity Electrostatic Discharge Radiated Immunity Fast Transients-Burst	See Section 7.1 . powerPac excludes fans powerPac UX4 with two XgA's @ full load.Telecordia SR-332 , Issue 1 May 2001, ground benign, ambient temperature of 40°C Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 Class A EN61000-3-3 EN61000-4-2 EN61000-4-3 EN61000-4-4	670	Class B Class B Compliant Compliant Level 2 Level 3 Level 3		fpmh kHours
EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation Immunity Electrostatic Discharge Radiated Immunity Fast Transients-Burst Input Line Surges	See Section 7.1 . powerPac excludes fans powerPac UX4 with two XgA's @ full load.Telecordia SR-332 , Issue 1 May 2001, ground benign, ambient temperature of 40°C Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 Class A EN61000-3-3 EN61000-4-2 EN61000-4-3	670	Class B Class B Compliant Compliant Level 2 Level 3		fpmh kHours
EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation Immunity Electrostatic Discharge Radiated Immunity Fast Transients-Burst Input Line Surges Conducted Immunity	See Section 7.1 . powerPac excludes fans powerPac UX4 with two XgA's @ full load.Telecordia SR-332 , Issue 1 May 2001, ground benign, ambient temperature of 40°C Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 Class A EN61000-3-3 EN61000-4-2 EN61000-4-3 EN61000-4-5	670	Class B Class B Compliant Compliant Level 2 Level 3 Level 3 Level 3		fpmh kHours
EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation Immunity Electrostatic Discharge Radiated Immunity Fast Transients-Burst Input Line Surges Conducted Immunity Voltage Dips	See Section 7.1 . powerPac excludes fans powerPac UX4 with two XgA's @ full load.Telecordia SR-332 , Issue 1 May 2001, ground benign, ambient temperature of 40°C Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 Class A EN61000-3-3 EN61000-4-2 EN61000-4-2 EN61000-4-5 EN61000-4-5 EN61000-4-6	670	Class B Class B Compliant Compliant Level 2 Level 3 Level 3 Level 3 Level 3 Level 3		fpmh kHours
EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation Immunity Electrostatic Discharge Radiated Immunity Fast Transients-Burst Input Line Surges Conducted Immunity Voltage Dips ENVIRONMENTAL	See Section 7.1 . powerPac excludes fans powerPac UX4 with two XgA's @ full load.Telecordia SR-332 , Issue 1 May 2001, ground benign, ambient temperature of 40°C Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 Class A EN61000-3-3 EN61000-4-2 EN61000-4-2 EN61000-4-5 EN61000-4-6 EN61000-4-6 EN61000-4-11, SEMI F47 Compliant (9)		Class B Class B Compliant Compliant Level 2 Level 3 Level 3 Level 3 Compliant	0.92	fpmh kHours
Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation Immunity Electrostatic Discharge Radiated Immunity Fast Transients-Burst Input Line Surges Conducted Immunity Voltage Dips ENVIRONMENTAL Parameter	See Section 7.1 . powerPac excludes fans powerPac UX4 with two XgA's @ full load.Telecordia SR-332 , Issue 1 May 2001, ground benign, ambient temperature of 40°C Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 Class A EN61000-3-3 EN61000-4-2 EN61000-4-3 EN61000-4-5 EN61000-4-6 EN61000-4-11, SEMI F47 Compliant ©	Min	Class B Class B Compliant Compliant Level 2 Level 3 Level 3 Level 3 Level 3 Level 3	0.92 Max	fpmh kHours Units Units
EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation Immunity Electrostatic Discharge Radiated Immunity Fast Transients-Burst Input Line Surges Conducted Immunity Voltage Dips ENVIRONMENTAL Parameter Operating Temperature	See Section 7.1 . powerPac excludes fans powerPac UX4 with two XgA's @ full load.Telecordia SR-332 , Issue 1 May 2001, ground benign, ambient temperature of 40°C Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 Class A EN61000-3-3 EN61000-4-2 EN61000-4-2 EN61000-4-5 EN61000-4-6 EN61000-4-6 EN61000-4-11, SEMI F47 Compliant (9)	Min -40	Class B Class B Compliant Compliant Level 2 Level 3 Level 3 Level 3 Compliant	0.92 Max +70	fpmh kHours Units Units C
EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation Immunity Electrostatic Discharge Radiated Immunity Fast Transients-Burst Input Line Surges Conducted Immunity Voltage Dips ENVIRONMENTAL Parameter Operating Temperature Storage Temperature	See Section 7.1 . powerPac excludes fans powerPac UX4 with two XgA's @ full load.Telecordia SR-332 , Issue 1 May 2001, ground benign, ambient temperature of 40°C Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 Class A EN61000-3-3 EN61000-4-2 EN61000-4-2 EN61000-4-5 EN61000-4-6 EN61000-4-6 EN61000-4-11, SEMI F47 Compliant (9) Conditions/Description Operates to specification below -20°C after 10 min warm-up	Min	Class B Class B Compliant Compliant Level 2 Level 3 Level 3 Level 3 Compliant	0.92 Max	fpmh kHours Units Units
EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation Immunity Electrostatic Discharge Radiated Immunity Fast Transients-Burst Input Line Surges Conducted Immunity Voltage Dips ENVIRONMENTAL Parameter Operating Temperature Storage Temperature Derating	See Section 7.1 . powerPac excludes fans powerPac UX4 with two XgA's @ full load.Telecordia SR-332 , Issue 1 May 2001, ground benign, ambient temperature of 40°C Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 Class A EN61000-3-2 Class A EN61000-4-2 EN61000-4-3 EN61000-4-5 EN61000-4-6 EN61000-4-6 EN61000-4-6 EN61000-4-11, SEMI F47 Compliant © Conditions/Description Operates to specification below -20°C after 10 min warm-up See Page 8 for full temperature deratings	Min -40 -40	Class B Class B Compliant Compliant Level 2 Level 3 Level 3 Level 3 Compliant	0.92 Max +70 +85	Units Units CC CC
EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation Immunity Electrostatic Discharge Radiated Immunity Fast Transients-Burst Input Line Surges Conducted Immunity Voltage Dips ENVIRONMENTAL Parameter Operating Temperature Storage Temperature Derating Relative Humidity	See Section 7.1 . powerPac excludes fans powerPac UX4 with two XgA's @ full load.Telecordia SR-332 , Issue 1 May 2001, ground benign, ambient temperature of 40°C Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 Class A EN61000-3-2 Class A EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-6 EN61000-4-6 EN61000-4-11, SEMI F47 Compliant ® Conditions/Description Operates to specification below -20°C after 10 min warm-up See Page 8 for full temperature deratings Non-condensing	Min -40	Class B Class B Compliant Compliant Level 2 Level 3 Level 3 Level 3 Compliant Nom	0.92 Max +70	Units Units C C C WRH
EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation Immunity Electrostatic Discharge Radiated Immunity Fast Transients-Burst Input Line Surges Conducted Immunity Voltage Dips ENVIRONMENTAL Parameter Operating Temperature Storage Temperature Derating Relative Humidity Acoustic Noise	See Section 7.1 . powerPac excludes fans powerPac UX4 with two XgA's @ full load.Telecordia SR-332 , Issue 1 May 2001, ground benign, ambient temperature of 40°C Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 Class A EN61000-3-2 Class A EN61000-4-2 EN61000-4-3 EN61000-4-5 EN61000-4-6 EN61000-4-6 EN61000-4-6 EN61000-4-11, SEMI F47 Compliant © Conditions/Description Operates to specification below -20°C after 10 min warm-up See Page 8 for full temperature deratings	Min -40 -40	Class B Class B Compliant Compliant Level 2 Level 3 Level 3 Level 3 Compliant	0.92 Max +70 +85	Units Units C C C WRH dBA
EMC Parameter Emissions Conducted Radiated Harmonic Distortion Flicker & Fluctuation Immunity Electrostatic Discharge Radiated Immunity Fast Transients-Burst Input Line Surges Conducted Immunity Voltage Dips ENVIRONMENTAL Parameter Operating Temperature Storage Temperature Derating Relative Humidity	See Section 7.1 . powerPac excludes fans powerPac UX4 with two XgA's @ full load.Telecordia SR-332 , Issue 1 May 2001, ground benign, ambient temperature of 40°C Standard EN55011, EN55022, FCC EN55011, EN55022, FCC EN55011, EN55022, FCC EN61000-3-2 Class A EN61000-3-2 Class A EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-6 EN61000-4-6 EN61000-4-11, SEMI F47 Compliant ® Conditions/Description Operates to specification below -20°C after 10 min warm-up See Page 8 for full temperature deratings Non-condensing	Min -40 -40	Class B Class B Compliant Compliant Level 2 Level 3 Level 3 Level 3 Compliant Nom	0.92 Max +70 +85	Units Units C C C WRH

NOTES

- 1. SEMI F47 compliant at input voltages >160VAC. Consult Excelsys for details.
- Visit www.excelsys.com for configuration and ordering and contact information.
 Product is not UL/EN certified for 120-380VDC input operation. Consult Excelsys for details.

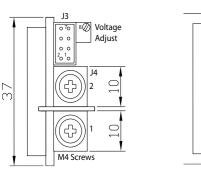
UX SERIES

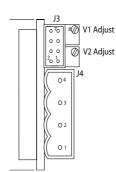
AC/DC Modular Power Supplies: 400-1200W Watts

Output Connectors

The output powerMods connection details are shown below. Type A connectors are for single output powerMods XgA-XgT and Xg1-Xg7. The Type B connector is for the dual output XgF/Xg8 powerMod. The power and signal connectors are as follows:

Type A: powerMods XgA to XgE XgG to XgT Xg1 to Xg7





Type B: powerMod

XgF/Xg8

Pin	J3	J3	J3	J3	J4	J4
Module	(XgA to XgD)	(XgG-XgT)	(XgE)	(XgF)	(Type A)	(Type B)
		(Xg1-Xg5)	(Xg7)	(Xg8)		
1	not used	+Sense*	not used	-pg (V2)	-Vout	-V2
2	Common	-Sense*	not used	+pg (V2)	+Vout	+V2
3	not used	Vtrim	not used	Inhibit V2)		-V1
4	not used	Itrim	Common	Common (V2)		+V1
5	+Inhibit	+Inhibit/Enable	-pg	-pg (V1)		
6	-Inhibit	-Inhibit/Enable	+pg	+pg (V1)		
7	not used	+pg	Inhibit	Inhibit (V1)		
8	not used	-pg	Common	Common (V1)		

Output Mating Connectors

J3: Locking Molex 51110-0860; Non Locking Molex 51110-0850; Crimp Terminal: Molex p/n 50394. Or Molex 51110-0856, includes Locking Tab & Polarization Keying,

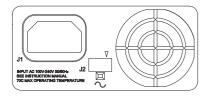
J4 (Type A): M4 Screw (8mm)

J4 (Type B) Connector(s): Camden CTB9200/4A

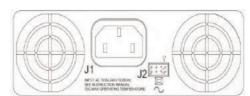
Input Connectors

The UltiMod series has a variety of input connector options to ease system integration. These include IEC, Input cables (3-wire) and IEC to Screw Terminal Adaptor.

J1 & J2 Connectors UX4







Pin	J1	J2
1	Line	Common
2	Neutral	+5V Bias
3	Earth	not used
4		AC Fail
5		Fan Fail
6		Global Enable
7		Temp Alarm
8		Global Inhibit

Input Mating Connectors

J1: IEC320 type female plug rated 13, Locking IEC cable and connector: Schaffner EMC part number IL13-US1-SVT-3100-183.

J2: Locking Molex 51110-0860; Non Locking 51110-0850; Crimp Terminal: Molex p/n 50394: Or Molex 51110-0856, includes Locking Tab & Polarization Keying

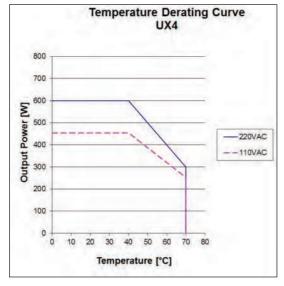
Input Cable (Option D)

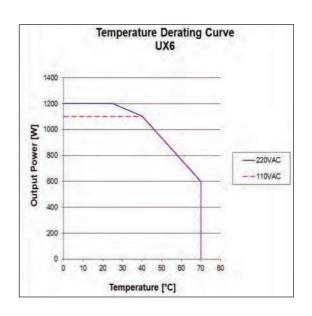
The UltiMod Series is also available with an input cable connection option allowing greater flexibility when mounting the UltiMod in the system. Individually insulated input cables are 300mm in length and come supplied with Faston connectors.

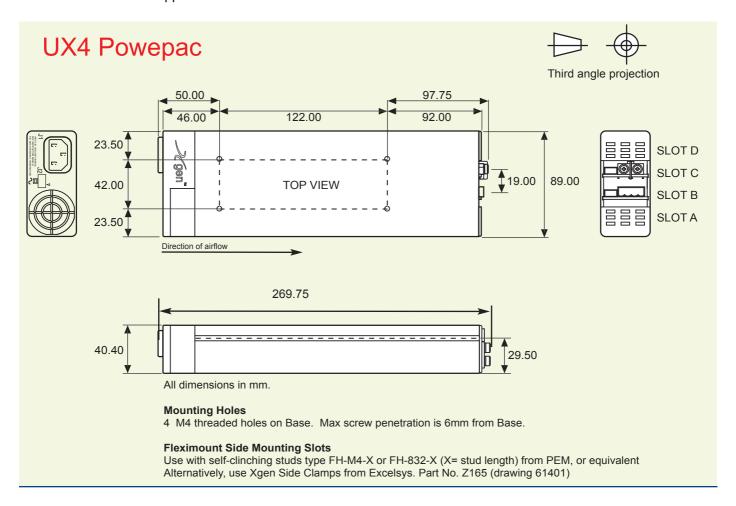
IEC to Screw Terminal Adaptor

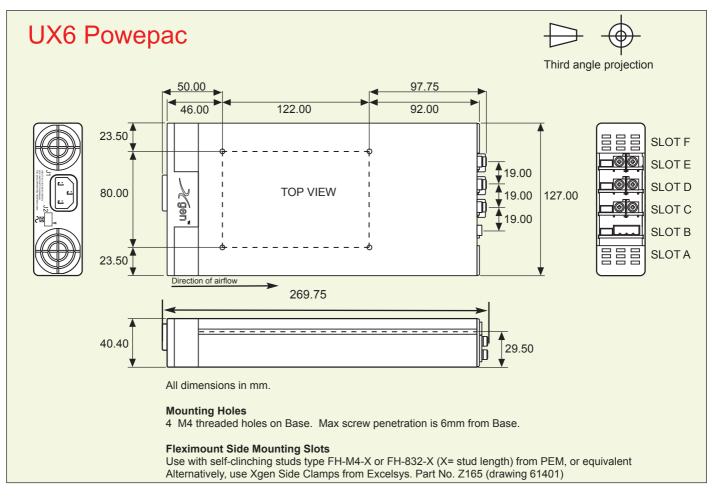
Some applications may require a screw terminal input rather than the standard IEC320 connector provided with the UltiMod. For such applications, Excelsys can offer the XE1, the IEC to Screw terminal adaptor accessory plug. This is a press fit connector that plugs securely into the UltiMod *powerPac* and provides the system integrator with screw terminals for mains connection. Recommended IEC to Faston/Terminal Lugs Schurter P/N 4788.8000

Derating Curves

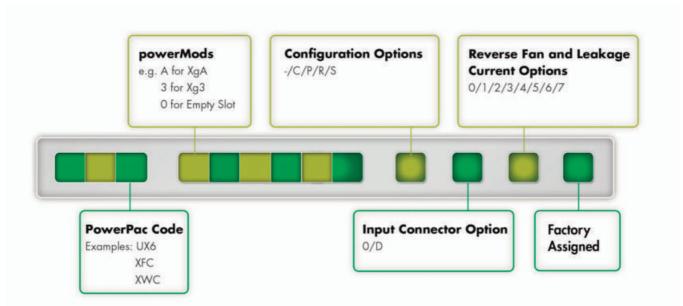








UX SERIES - Configrations



Section 3.4 Configuring your Modular Power Supply

The Xgen and UltiMod series of user configurable power supplies combine feature rich AC input front-ends (power-Pacs) with slide-in DC output modules (powerMods). The plug and play architecture allows system designers to define and build 'instant' custom power solutions with industry leading 17W/in³ power density and up to 92% efficiency.

Configured units may be specified and ordered using the part numbering system shown above.

OPTION CODES EXPLAINED

CONFIGURATION OPTIONS

- "-" Standard. No additional configuration Nominal output voltages and no options
- "C" Conformal Coating
- "P" Preset. Voltage Adjustments, Series, Parallel Outputs
- "R" Extra Ruggedisation for Shock and Vibration
- "S" Conformal Coating and Extra Ruggedisation for Shock and Vibration

INPUT CONNECTOR CONFIGURATOR OPTIONS

- "0" Standard IEC Input Connector
- "D" Input Cable Option

REVERSE FAN AND LEAKAGE CURRENT OPTIONS

- "0" Standard Thermal Signals + Fan Fail Signal Included
- "1" Standard Thermal Signals + Fan Fail Signal Included (Xgen models only)
- "2" Reverse Fan (Includes "0")
- "3" Reverse Fan, Standard Thermal Signals + Fan Fail Signal Included (Xgen models only)
- "4" 150uA Leakage Current*(medical models only, Includes"0")
- "5" 150uA Leakage Current*, Standard Thermal Signals + Fan Fail Signal Included (Xgen models only)
- "6" 150uA* + Reverse Fan (medical versions only, Includes"0")
- "7" 150uA Leakage Current*, Reverse Fan, Standard Thermal Signals + Fan Fail Signal Included (Xgen models only)

Specifying & Ordering Configured Power Supplies

Configured Units may be specified and ordered using the part numbering system shown opposite. At our configuration centre we will assemble the Power Supply as specified by you accounting for slot preferences and also for preferred settings (Voltage/Series/Parallel etc), and also incorporating any Options required.

Configuration example for UltiMod: part number UX4CGD0-D4 specifies the following product;

- UX4 powerPac 600W (Medical & Industrial)
- Slot 1: XgC: 36V/5.6A powerMod
- Slot 2: XgG: 2.5V/40A powerMod
- Slot 3: XgD: 48V/4.2A powerMod
- Slot 4: empty
- Option D (input cable) & Option 4 (150uA Leakage current)

Configuration example for XF: part number XFC2DK4BHS01 specifies the following product;

- XFCS01 powerPac 1000W (includes options S & 1 as standard)
- Slot 1: Xg2C 5V/40A powerMod
- Slot 2: XgDC 48V/4.2A powerMod
- Slot 3: XgKC 24V/9.2A powerMod
- Slot 4: Xg4C 24V/10A powerMod
- Slot 5: XgBC 24V/8.3A powerMod
- Slot 6: XgHC 5V/36A powerMod

Configuration example for Xgen: part number XVD2345F0-D4 specifies the following product;

- XVD powerPac 1200W (Medical)
- Slot 1: Xg2:5V/40A powerMod
- Slot 2: Xg3:12V/20A powerMod
- Slot 3: Xg4:24V/10A powerMod
- Slot 4: Xg5:48V/6A powerMod
- Slot 5: XgF:24V/3A, 24V/3A powerMod
- Slot 6: empty
- Option D (input cable) & Option 4 (150uA Leakage current)

*UltiMod comes with Thermal and Fan Fail signals as standard

*With 150uA Leakage Current (Option 4) some external filtering may in certain cases be needed to meet system level EMC specifications. Consult Excelsys for support.