# **Medically Approved**

Ultra-high efficiency 1U size



PLUG & PLAY POWER next generation power source

### **FEATURES**

- UL60601-1 and EN60601-1 approved
- · Less than 300μA leakage current
- · 4000VAC isolation
- · 1450W peak power for 10sec
- 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 XCE

The XVE addition to the Xgen family of medically approved power supplies provides up to 1340W (peak power 1450W) in the most compact package of 1U x 268mm x 127mm. Boasting an industry leading 17W/in³ and 90% efficiency, the XVE can provide up to 12 isolated DC outputs. The XVE employs innovative plug & play architecture allowing 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 best field-proven techniques in planar magnetics and surface mount electronics. The significant system space savings and reduced heat dissipation radically simplify system design.

The XVE can be populated with up to 6 *powerMods* selected from the table of *powerMods* shown below.

All configurations carry full safety agency approvals including UL60601-1 and EN60601-1 and are CE marked. For alternative power interfaces contact <a href="mailto:support@excelsys.com">support@excelsys.com</a>

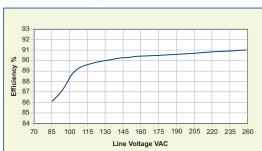
### powerMods

MODEL		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 V2	5.0 5.0	24.0 24.0	28.0 28.0	3A 3A	72W 72W

#### powerPacs

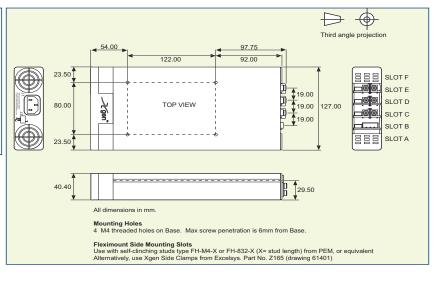
MODEL	Watts
XVE	1340W

### **EFFICIENCY** (typical)



# genseries

### **MECHANICAL SPECIFICATIONS**



1

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

Max 264 380 63 1340(1450) 25 74 C  Max  ±0.1 ±0.2 10 250 1.0 125 120 0.5	Units  VAC VDC Hz W A A VAC  Units  A % % % % % % % % % % % % % % % % % %
380 63 1340(1450) 25 74 C Max ±0.1 ±0.2 10 250 1.0 125 120	VDC Hz W A A VAC Units  A % % % µs % pk- %
63 1340(1450) 25 74 C Max ±0.1 ±0.2 10 250 1.0 125 120	Hz W A A VAC  Units  A % % µs % pk- %
1340(1450)  25 74 C  Max  ±0.1 ±0.2 10 250 1.0 125 120 0.5	W A A VAC Units
25 74 C Max ±0.1 ±0.2 10 250 1.0 125 120	A A VAC Units  A % % % µs % pk-%
#0.1 #0.2 10 250 1.0 125 120	A VAC Units  A % % µs % pk-
#0.1 #0.2 10 250 1.0 125 120	Units  A % % µs % pk- %
±0.1 ±0.2 10 250 1.0 125 120	Units  A % % % µs % pk-
±0.1 ±0.2 10 250 1.0 125 120	A % % μs % pk-%
±0.1 ±0.2 10 250 1.0 125 120	A % % μs % pk-%
±0.1 ±0.2 10 250 1.0 125 120	A % % μs % pk-%
±0.2 10 250 1.0 125 120	% % % µs % pk-
±0.2 10 250 1.0 125 120	% % % µs % pk-
±0.2 10 250 1.0 125 120	% % % µs % pk-
±0.2 10 250 1.0 125 120	% % µs % pk-
10 250 1.0 125 120	% μs % pk-
250 1.0 125 120	μs % pk- %
1.0 125 120	% pk-
125 120 0.5	% pk-
120 0.5	
0.5	%
	/0
	VDC
2	%
700 / 30	ms
5	ms
	ms
	VDC
Max	Units
	VAC
	VAC
	%
300	μΑ
	1
5.1	VDC
0.98	fpmh
0.92	fpmh
	Units
t	
t	
	V/m
	ms
Max	Units
Max	Units
+70	∞
-	300 5.1 0.98

### **NOTES**

Shock

Vibration

**Relative Humidity** 

- 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.

3000 Bumps, 10G (16ms) half sine

Non-condensing

1.5G

4. 1450W peak for 10s; Duty cycle 8%. powerMod output power must not exceed normal ratings



Excelsys Technologies Ltd t: +353 21 4354716 27 Eastgate Drive Eastgate Business Park
Little Island, Cork, Ireland **IRELAND** 

f: +353 21 4354864 e: sales@excelsys.com

## **North America**

5

10

**Excelsys Technologies** 519 Interstate 30, #309 Rockwall, TX 75087 **USA** 

XVE Rev 00 t: (972) 771 4544

%RH

Hz

f: (972) 421 1805 e: salesusa@excelsys.com

95

200