



IP22 Class I &amp; II (VI)

**Product Features**

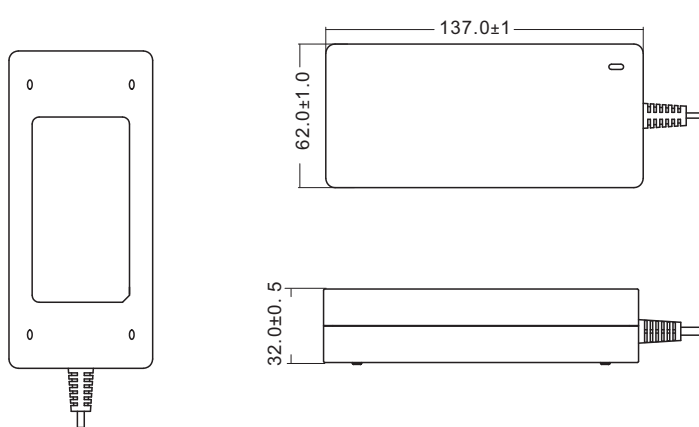
- Medical safety approvals
- 2 MOPP input to output isolation
- PF>0.90@230Vac full load
- Leakage current ≤ 100µA
- DOE level VI
- ≤ 0.21W standby power
- Peak load: 168W MAX @ Rated Input Voltage
- Up to 5,000m operating altitude
- 4 types of AC inlet
- 11V to 54V outputs, up to 90W


**Models & Ratings**


Model Number	Voltage <sup>(*)</sup> (V)	Current (A)	Rated Power	Ripple & Noise <sub>(max)</sub>	Voltage Tolerance	Line & Load Regulation	Efficiency (Average)	Start Up Delay
UES90C-XXXXYYSPA Z	11.0	0.01-7.00	77.00W	150mVpk-pk	±5%	Line: ±1% Load: ±5%	88.00%	≤3s
	12.0	0.01-7.00	84.00W	150mVpk-pk	±5%		88.00%	≤3s
	15.0	0.01-6.00	90.00W	180mVpk-pk	±5%		88.00%	≤3s
	17.0	0.01-5.29	90.00W	200mVpk-pk	±5%		88.00%	≤3s
	19.0	0.01-4.74	90.00W	200mVpk-pk	±5%		88.00%	≤3s
	22.0	0.01-4.09	90.00W	200mVpk-pk	±5%		88.00%	≤3s
	24.0	0.01-3.75	90.00W	200mVpk-pk	±5%		88.00%	≤3s
	26.0	0.01-3.46	90.00W	200mVpk-pk	±5%		88.00%	≤3s
	30.0	0.01-3.00	90.00W	200mVpk-pk	±5%		88.00%	≤3s
	33.0	0.01-2.73	90.00W	200mVpk-pk	±5%		88.00%	≤3s
	36.0	0.01-2.50	90.00W	200mVpk-pk	±5%		88.00%	≤3s
	39.0	0.01-2.31	90.00W	200mVpk-pk	±5%		88.00%	≤3s
	43.0	0.01-2.09	90.00W	300mVpk-pk	±5%		88.00%	≤3s
	46.0	0.01-1.95	90.00W	300mVpk-pk	±5%		88.00%	≤3s
	48.0	0.01-1.88	90.00W	300mVpk-pk	±5%		88.00%	≤3s
	52.0	0.01-1.73	90.00W	300mVpk-pk	±5%		88.00%	≤3s
54.0	0.01-1.67	90.00W	300mVpk-pk	±5%	88.00%	≤3s		


Model encoding: replace "Z" with "1" for C8 (Class II), "2" for C6 (Class I), "3" for C14 (Class I), "4" for C18 (Class II) AC inlets


**Mechanical Details**




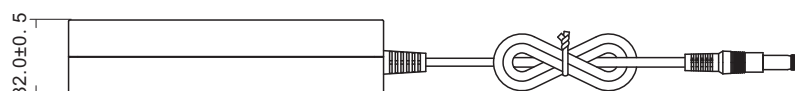
Interchangeable AC Plug Options

  
 C8 (SPA1)

  
 C6 (SPA2)

  
 C14 (SPA3)

  
 C18 (SPA4)



Unit: mm

DC cable and connector can be customized.

**Notes**

(\*) Other options are available, please contact our sales representative for details.

**Input**

Input Voltage Range	80-264VAC
Frequency Range	47-63Hz
Input Current	1.5A at 80VAC
Inrush Current	120A max at 240VAC cold start
Touch Leakage Current	≤100µA at 264VAC

**Environmental**

Operating Temperature	0°C to 40°C
Storage Temperature	-20°C to 60°C
Operating Humidity	10% to 90% RH, non-condensing
Storage Humidity	5% to 90% RH
Operating Altitude	5,000m

**General**

Dimensions	137(L) 62(W) 32(H)mm
Weight	300g
MTBF	>100,000hrs MIL-HDBK-217 at 25°C

**Protection**

Overload	105-200% rated output power
Over Voltage	110-200% rated output voltage
Short Circuit	No damage

**Safety Approvals**

Safety Agency / Mark	Medical (meet)	ITE (meet)
CB	IEC60601-1	IEC62368-1
UL	ANSI/AAMI ES60601-1 CAN/CSA C22.2 NO.60601-1	UL62368-1
TUV-Mark	EN60601-1	-

**EMC**

Emission	Medical	ITE
Conduction	IEC/EN60601-1-2, CISPR 11	EN55032, CISPR 32
Radiation	IEC/EN60601-1-2, CISPR 11	EN55032, CISPR 32
Harmonic Currents	EN61000-3-2, Class A	EN61000-3-2, Class A
Voltage Flicker	EN61000-3-3	EN61000-3-3
Immunity	IEC/EN60601-1-2	En55035, CISPR 35
ESD	IEC61000-4-2	±15KV air, ±8KV contact
Radiated Immunity	IEC61000-4-3	10V/m, 3V/m 80MHz - 2.7GMHz
EFT/Burst	IEC61000-4-4	±2KV on AC port
Surge	IEC61000-4-5	±2KV line to line (different mode)
Conducted Immunity	IEC61000-4-6	3Vrms, 6Vrms (0.15MHz-80MHz)
Magnetic Field	IEC61000-4-8	30 A/m
Dips & Interruptions	IEC61000-4-11	0%, 70%, 0% of UT

**Others**

Dielectric Withstand Voltage	4000Vac or 5,656VDC input to output
Insulation Resistance	100M Ohms, 500VDC input to output