



Ip20 Class I &amp; II (VI)

### Product Features

- Medical safety approvals
- 2 MOPP input to output isolation
- PF>0.90@230Vac full load
- Touch current ≤ 100µA
- DOE level VI
- ≤ 0.21W standby power
- Peak load: 216W(10s)
- Up to 5,000m operating altitude
- 4 types of AC inlet

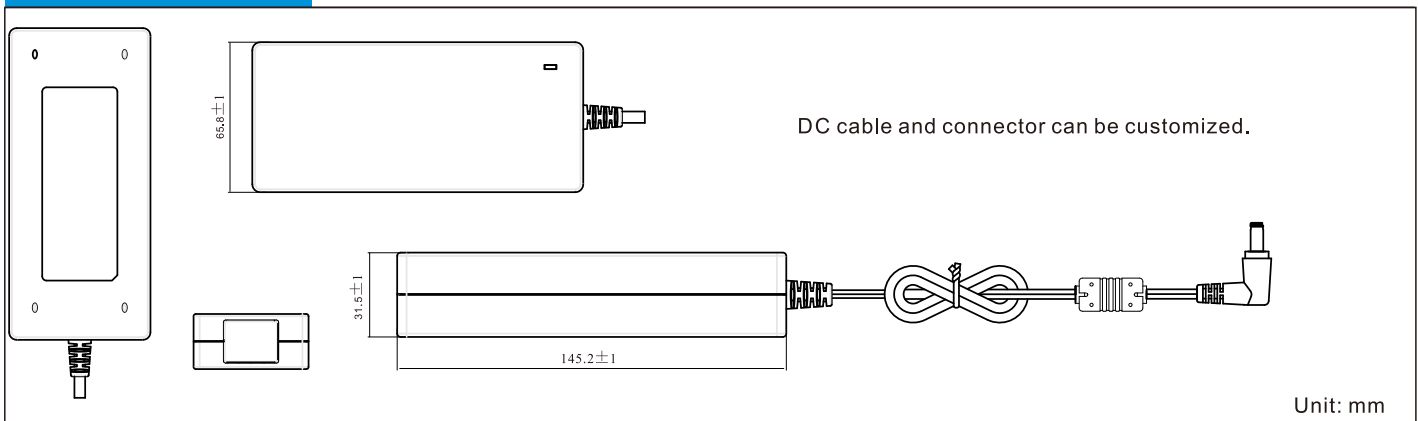


### Models & Ratings

Model Number	Voltage <sup>(*)1</sup>	Current	Rated Power	Ripple & Noise <sub>(max)(*)2</sub>	Voltage Tolerance	Line & Load Regulation	Efficiency (Average)	Start Up Delay
UES100D"Z"-120750SPA	12VDC	7.50A	90.0W	150mVpk-pk	±5%		88.00%	≤3s
UES100D"Z"-190526SPA	19VDC	5.26A	99.94W	200mVpk-pk	±5%	Line: ±1%	88.00%	≤3s
UES100D"Z"-240416SPA	24VDC	4.16A	99.84W	300mVpk-pk	±5%	Load: ±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

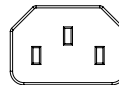
### Mechanical Details



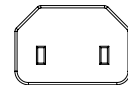
### AC Inlet Options


 C8 (D1) <sup>(\*)3</sup>


C6 (D2)



C14 (D3)



C18 (D4)

#### Notes

(\*)1 Other options are available, please contact our sales representative for details.

(\*)2 Measured at output connector with 20MHz bandwidth and 0.1uF ceramic in parallel with 10uF electrolytic capacitors.

(\*)3 Polarized C8 is available.

**Input**

Input Voltage Range	90-264VAC
Frequency Range	47-63Hz
Input Current	2.5A at 90VAC
Inrush Current	120A max at 240VAC cold start
Touch Leakage Current <sup>(max)</sup>	≤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	145.2(L)x65.8(W)x31.5(H)mm
Weight	420g
MTBF	>50,000hrs MIL-HK8K-217 at 25°C

**Protection**

Overload	220-250% rated output power, auto recovery
Over Voltage	125-145% rated output voltage input to reset
Short Circuit	Trip and restart (hiccup mode)

**Safety Approvals**

Safety Agency / Mark	Medical	ITE(Meet)
CB	IEC60601-1	IEC62368-1
UL	ANSI/AAMI ES60601-1 CAN/CSA-C22.2 NO. 60601-1	UL 62368
TUV-mark	EN60601-1	EN62368-1

**EMC**

Emissions	Medical	ITE
Conducted	IEC/EN 60601-1-2, CISPR 11	EN55032, CISPR 32
Radiated	IEC/EN 60601-1-2, 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/EN 60601-1-2	EN55035, CISPR 35
ESD	EN61000-4-2	±15KV air, ±8KV contact
Radiated Immunity	EN61000-4-3	10V/m, 3V/m 80MHz - 2.7GHz
EFT/Burst	EN61000-4-4	±2KV on AC port, ±1KV on signal ports
Surge	EN61000-4-5	±1KV line to line (diff mode)
Conducted Immunity	EN61000-4-6	3Vrms, 6Vrms (0.15MHz-80MHz)
Magnetic Field	EN61000-4-8	30 A/m
Dips & Interruptions	EN61000-4-11	0%, 70%, 0% of UT

**Others**

Dielectric Withstand Voltage	5,656VDC input to output
Insulation Resistance	10M Ohms, 500VDC input to output