



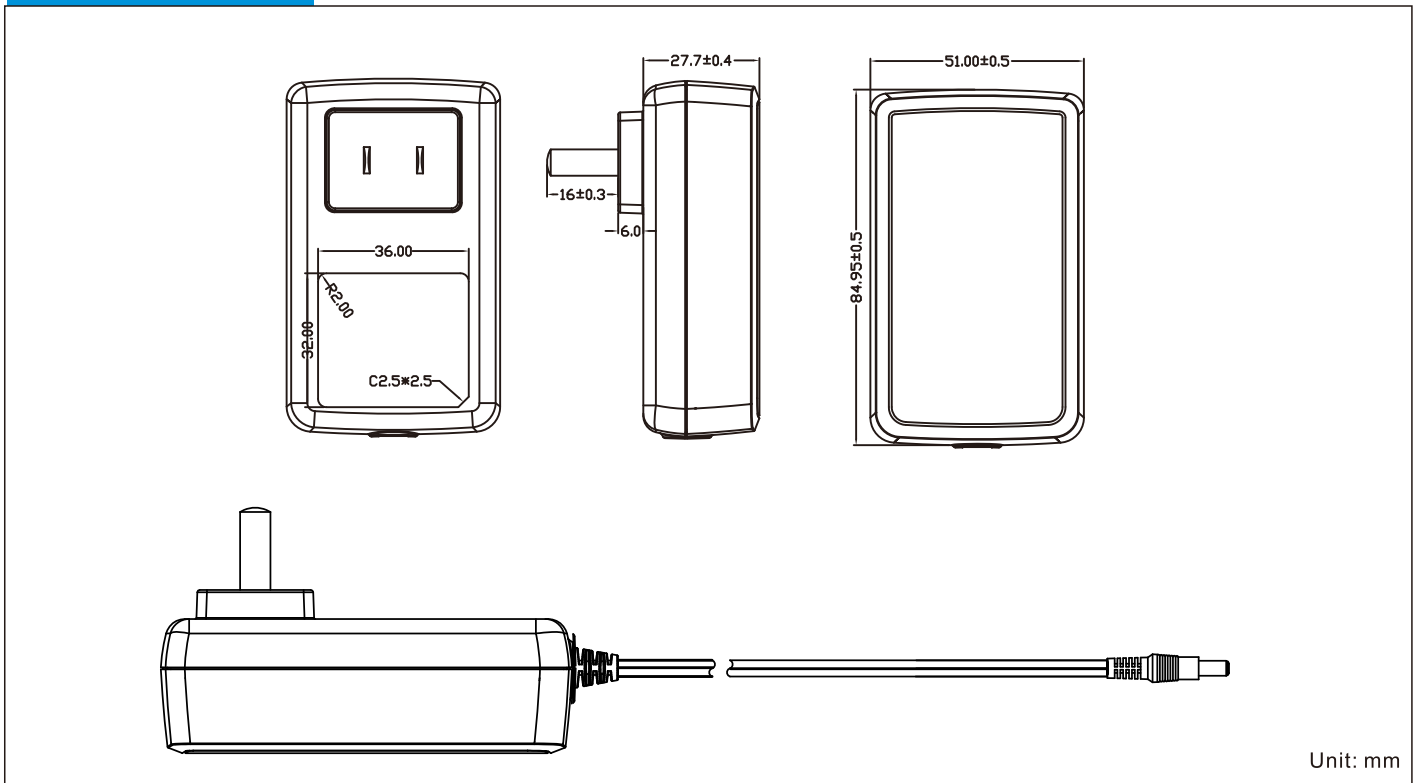
IP20 Class II VI

**Product Features**

- Medical & I.T.E. safety approvals
- 2 MOPP input to output isolation
- Leakage current  $\leq 100\mu\text{A}$
- Energy efficiency level VI
- $\leq 0.075\text{W}$  standby power
- 12.0V or 24.0V outputs, up to 36W
- Up to 5,000m operating altitude


**Models & Parameters**

Model Number	Voltage <sup>(*1)</sup> (V)	Current (A)	Rated Power	Ripple & Noise (max) <sup>(*2)</sup>	Voltage Tolerance	Line & Load Regulation	Efficiency (Average)	Start Up Delay
UES36WZ1-XXXXYYSPA	12.0V	0.01-3.00	36.00W	120mVpk-pk	$\pm 5\%$	Line: $\pm 3\%$ Load: $\pm 5\%$	88.3%	$\leq 3\text{s}$
	19.0V	0.01-1.89	36.00W	240mVpk-pk	$\pm 5\%$		88.3%	$\leq 3\text{s}$
	24.0V	0.01-1.50	36.00W	240mVpk-pk	$\pm 5\%$		88.3%	$\leq 3\text{s}$

**Mechanical Details**

**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

**Input**

Input Voltage Range	90-264VAC
Frequency Range	47-63Hz
Input Current	0.5A at 90VAC
Inrush Current	100A max at 240VAC cold start
Touch Leakage Current <sup>(max)</sup>	≤100µA at 264VAC

**Environmental**

Operating Temperature	0°C to 45°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	84.95(L)x51(W)x27.7(H)mm
Weight	155g
MTBF	>100,000hrs MIL-HDBK-217 at 25°C

**Protection**

Overload	110-200% rated output power, auto recovery
Over Voltage	120-150% rated output voltage input to reset
Short Circuit	Trip and restart (hiccup mode)

**Safety Approvals**

Safety Agency / Mark	Medical	ITE
CCC	-	GB4943.1

**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, ±1KV on signal ports
Surge	IEC61000-4-5	±6KV 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	5,656 DC input to output
Insulation Resistance	10M Ohms, 500VDC input to output