



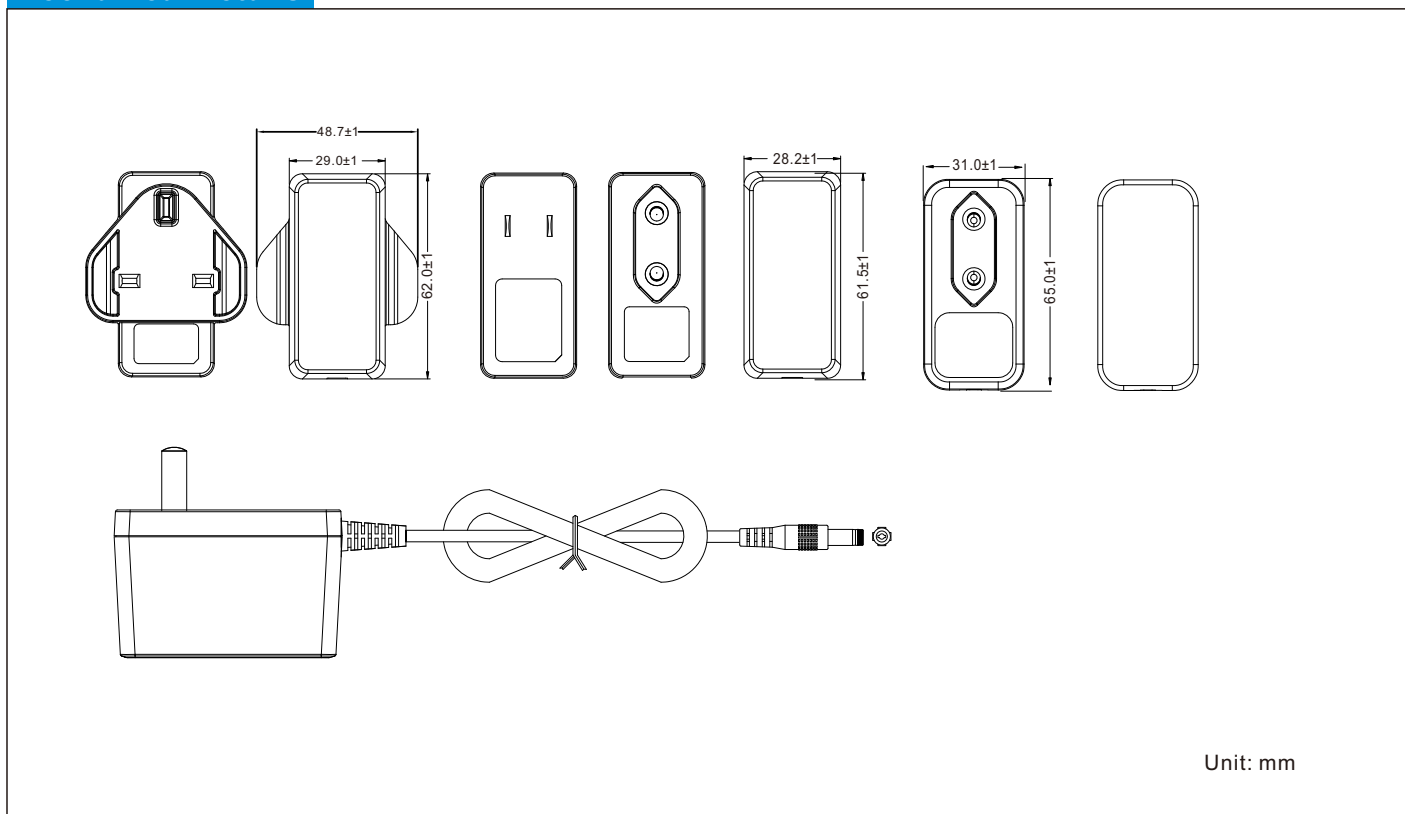
Class II (VI)

Product Features

- Medical & I.T.E. safety approvals
- 2 MOPP input to output isolation
- Energy Efficiency level V
- Leakage current $\leq 100\mu\text{A}$
- $\leq 0.1\text{W}$ standby power
- 12V output, up to 12W
- Up to 5,000m operating altitude
- LED charging indicator


Models & Ratings

Model Number	Voltage ^(*1) (V)	Current (A)	Rated Power	Ripple & Noise (max) ^(*2)	Voltage Tolerance	Line & Load Regulation	Efficiency (Average)	Start Up Delay
UES12LZ11-XXXYYYSPA	12.0	0.01-1.00	12.0W	150mVpk-pk	$\pm 5\%$	Line: $\pm 5\%$	77.9%	$\leq 3\text{s}$

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 100VAC
Inrush Current	50A max at 240VAC cold start
Touch Leakage Current ^(max)	≤100µA at 264VAC

Environmental

Operating Temperature	0°C to 40°C
Storage Temperature	-40°C to 85°C
Operating Humidity	20% to 90% RH, non-condensing
Storage Humidity	10% to 95% RH
Operating Altitude	5,000m

General

Dimensions	61.5(L) 39.5(W) 28.2(H)mm
Weight	About 80g
MTBF	>100,000hrs MIL-HDBK-217 at 25°C

Protection

Overload	110-180% rated output power, auto recovery
Over Voltage	150% Max output voltage input to reset
Short Circuit	Trip and restart (hiccup mode)

Safety Approvals

Safety Agency / Mark	Medical	ITE
CCC	-	GB4943.1
CB	IEC60601-1	
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, ±1KV on signal ports
Surge	IEC61000-4-5	±1KV line to line (DM)
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 input to output
Insulation Resistance	10M Ohms, 500VDC input to output