

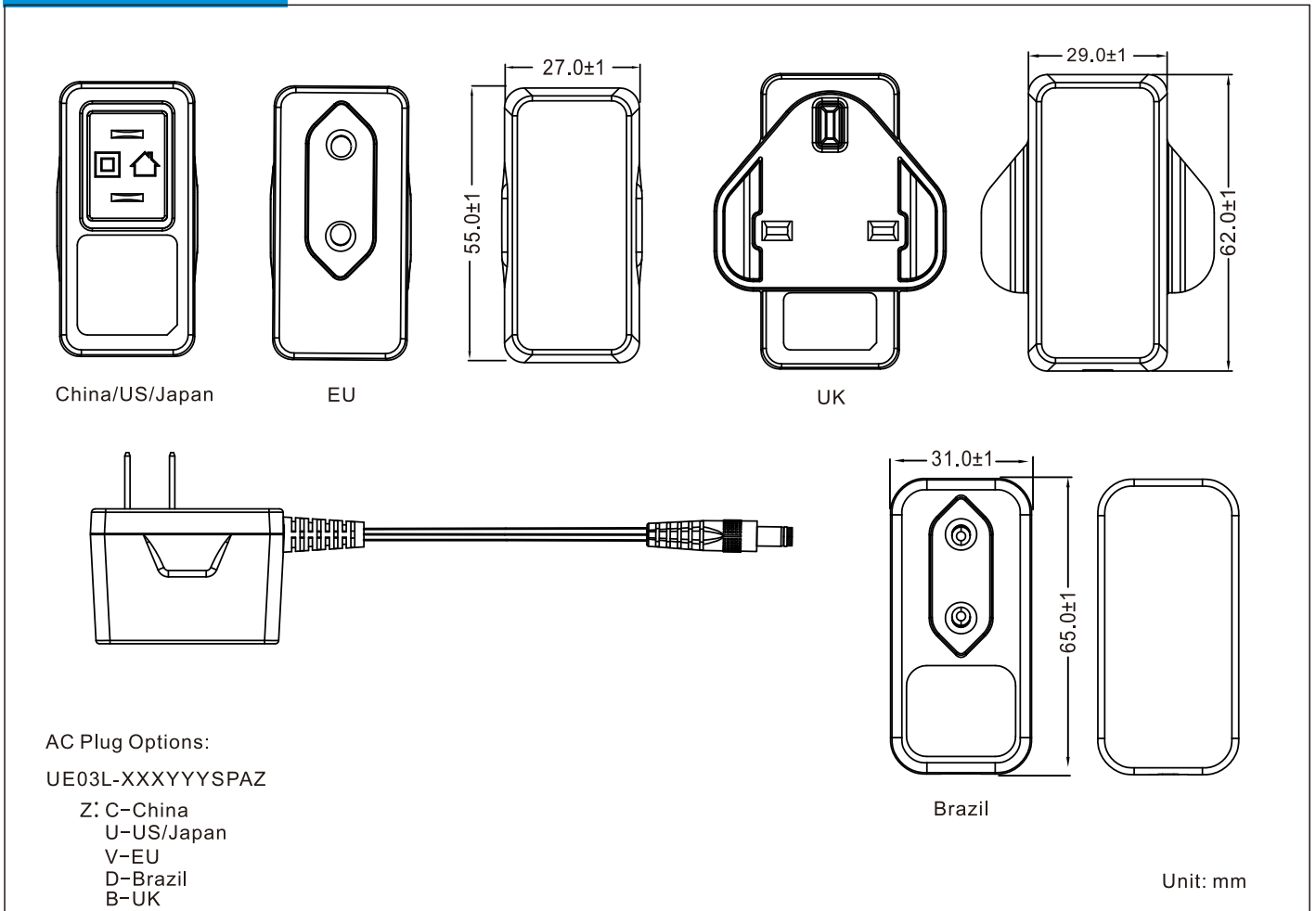
Class II (V)

Universal 2.7Watts - UE03L-SPAZ Series
Product Features

- Meet Medical & I.T.E. safety approvals
- 2 MOPP input to output isolation
- Energy Efficiency level V
- Leakage current $\leq 100\mu\text{A}$
- $\leq 0.3\text{W}$ standby power
- 9V output, up to 2.7W
- Up to 5,000m operating altitude
- Charger turn, light function (white)


Models & Ratings

Model Number	Voltage ^(*)	Current	Rated Power	Ripple & Noise _{(max)(*)2}	Voltage Tolerance	Line & Load Regulation	Efficiency (Average)	Start Up Delay
UE03L-XXXYYYSPA Z	9.0	0.01-0.3	2.70W	120mVpk-pk	$\pm 5\%$	Line: $\pm 5\%$	68.42%	$\leq 3\text{s}$

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	0.2A at 100VAC
Inrush Current	50A max at 240VAC cold start
Touch Leakage Current ^(max)	≤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	55.0(L) 8.3(W) 27.0(H)mm
	65.0(L) 45.0(W) 31.0(H)mm
	62.0(L) 40.0(W) 29.0(H)mm
Weight	60~80g
MTBF	>100,000hrs MIL-HDBK-217 at 25°C

Protection

Overload	110-300% rated output power, auto recovery
Over Voltage	200% Max output voltage input to reset
Short Circuit	Trip and restart (hiccup mode)

Safety Approvals

Safety Agency / Mark	Medical (meet)	ITE (meet)
CB	IEC60601-1	IEC62368-1(Meet)
TUV-SUD/Mark	EN60601-1	-
CCC	-	GB4943.1
FCC	-	FCC PART 15
ETL	ANSI/AAMI ES60601-1 CAN/CSA C22.2 NO. 60601-1	UL62368-1

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