



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
- 5V-24V outputs, up to 24W
- Up to 5,000m operating altitude
- Optional fixed plug /interchangeable plug design
- IP22 for fixed plug design/IP20 for interchangeable plug design



Models & Parameters

Model Number	Voltage ^(*) (V)	Current (A)	Rated Power	Ripple & Noise (max)	Voltage Tolerance	Line & Load Regulation	Efficiency (Average)	Start Up Delay
UES24LZ5-XXXXYYSPA	5.0-5.9	0.01-3.00	17.70W	120mVpk-pk	±5%	Line: ±1% Load: ±5%	83.0%	≤3s
	6.0-7.5	0.01-3.00	22.50W	120mVpk-pk	±5%		86.6%	≤3s
	7.6-8.0	0.01-2.62	21.00W	120mVpk-pk	±5%		86.2%	≤3s
	8.1-8.9	0.01-2.36	21.00W	150mVpk-pk	±5%		86.2%	≤3s
	9.0-10.0	0.01-2.40	24.00W	150mVpk-pk	±5%		86.8%	≤3s
	10.1-11.0	0.01-2.18	24.00W	150mVpk-pk	±5%		86.8%	≤3s
	11.1-12.0	0.01-2.00	24.00W	150mVpk-pk	±5%		86.8%	≤3s
	12.1-13.0	0.01-1.84	24.00W	200mVpk-pk	±5%		86.8%	≤3s
	13.1-14.0	0.01-1.71	24.00W	200mVpk-pk	±5%		86.8%	≤3s
	14.1-15.0	0.01-1.60	24.00W	200mVpk-pk	±5%		86.8%	≤3s
	19.0-20.0	0.01-1.20	24.00W	240mVpk-pk	±5%		86.8%	≤3s
	20.1-21.0	0.01-1.14	24.00W	240mVpk-pk	±5%		86.8%	≤3s
	21.1-22.0	0.01-1.09	24.00W	240mVpk-pk	±5%		86.8%	≤3s
	22.1-23.0	0.01-1.04	24.00W	240mVpk-pk	±5%		86.8%	≤3s
	23.1-24.0	0.01-1.00	24.00W	240mVpk-pk	±5%		86.8%	≤3s

Model encoding:

Replace "Z" with "C" for fixed CNAC plug

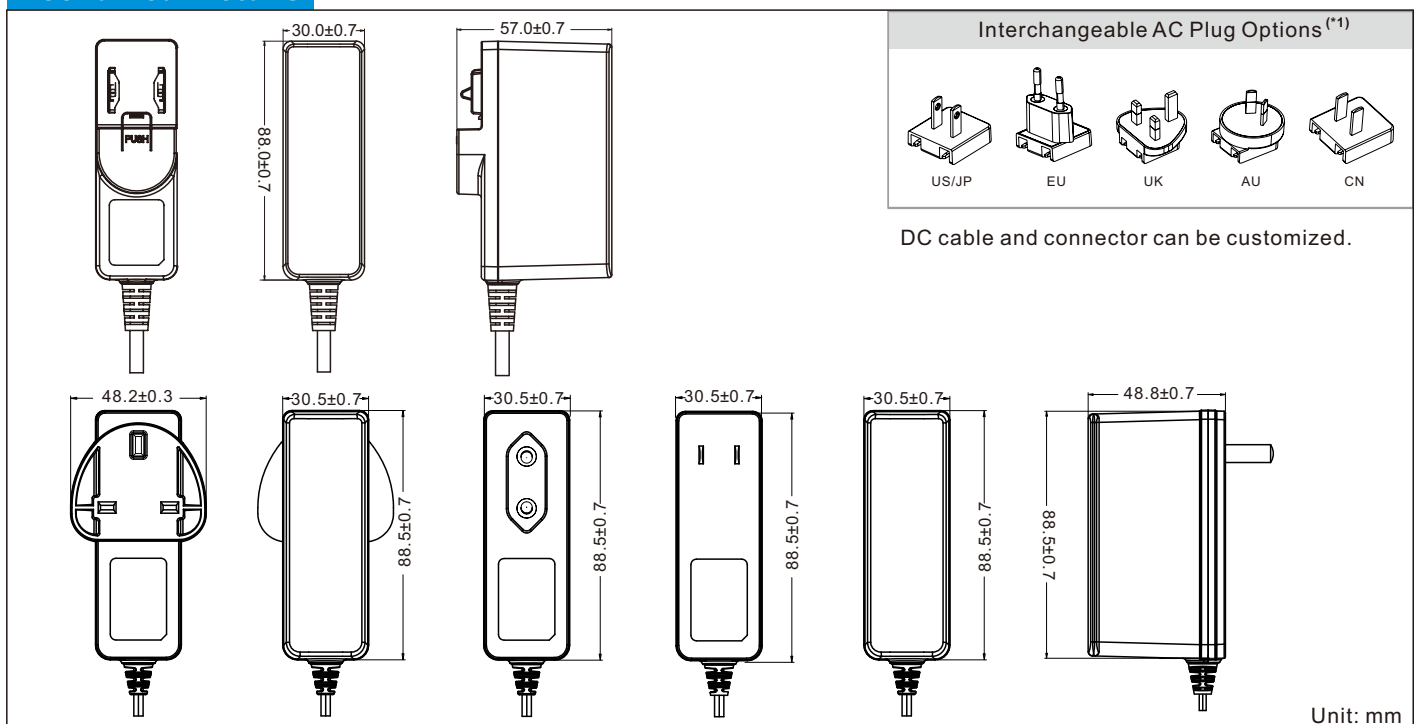
Replace "Z" with "V" for fixed EU AC plug

Replace "Z" with "U" for fixed US AC plug

Replace "Z" with "B" for fixed UK AC plug

Replace "Z" with "CP" for changeable AC plug

Mechanical Details



Notes

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

Input

Input Voltage Range	90-264VAC
Frequency Range	47-63Hz
Input Current	0.7A at 100VAC
Inrush Current	70A max at 240VAC cold start
Touch Leakage Current ^(max)	≤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	88(L) 30.0(W) 48.8(H)mm/fixed plug 88(L) 30.(W) 57(H)mm/interchangeable plug
Weight	140g
MTBF	>100,000hrs Telcordia_SR-332 at 25°C

Protection

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

Safety Approvals

Safety Agency / Mark	Medical	ITE
CB	IEC60601-1	IEC62368-1
UL	ANSI/AAMI ES60601-1 CAN/CSA C22.2 NO. 60601-1	-
TUV Mark	EN60601-1	EN62368-1
CCC	-	GB4943.1
PSE	-	J62368
KC	-	K62368-1
RCM	-	AS/NZS 62368.1
FCC	-	FCC PART 15
	-	

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 - 2.7GHz
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