



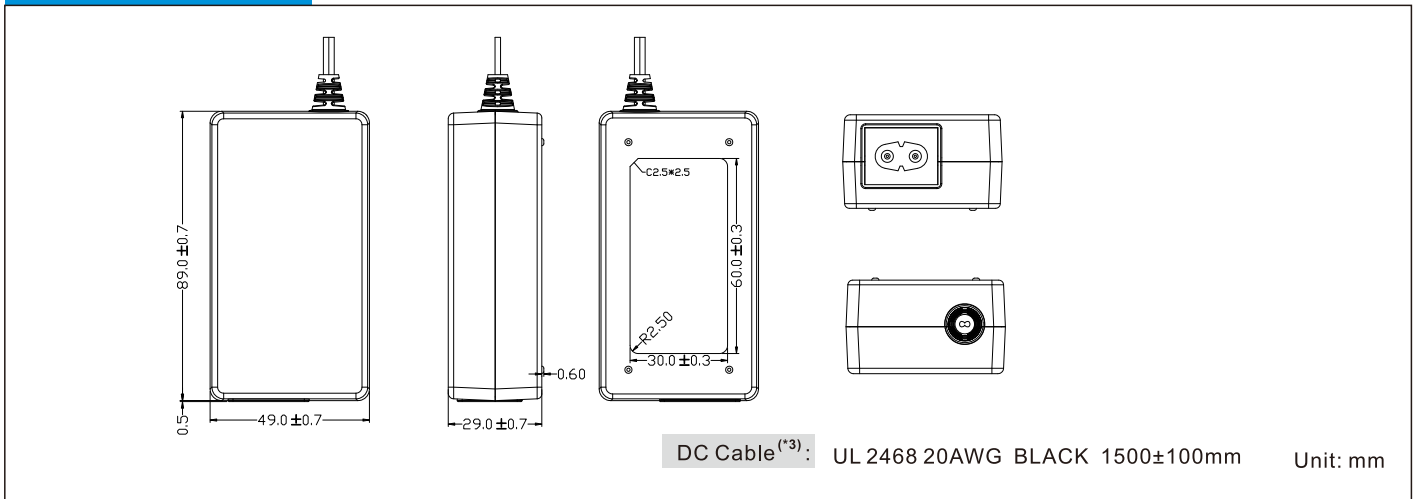
IP22 Class II (VI)

Product Features

- Medical & ITE safety approvals
- 2 MOPP input to output isolation
- DOE Efficiency Level VI & CoC V5 Tier2(2016);
- Leakage current $\leq 10\mu\text{A}$
- $\leq 0.075\text{W}$ standby power
- Up to 5,000m operating altitude


Models & Ratings

Model Number	Voltage ^(*)	Current	Rated Power	Ripple & Noise _{(max)(*)} ⁽²⁾	Voltage Tolerance	Line & Load Regulation	Efficiency (Average)	Start Up Delay
UES24DZ-120200SPA	12VDC	0.01-2.0A	24W	150mVpk-pk	$\pm 5\%$	Line: $\pm 1\%$ Load: $\pm 5\%$	86.8%	$\leq 3\text{s}$

Mechanical Details

AC Inlet Options

 C8(D1)^(*)
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	80-264VAC
Frequency Range	47-63Hz
Input Current	0.8A at 80VAC
Touch Leakage Current (max)	≤ 10µA 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	89.0(L)x49.0(W)x29.0(H)mm
Weight	132g
MTBF	>50,000hrs MIL-HK8K-217 at 25°C
Isolation	5,656VDC Input to Output

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(Meet)	ITE(Meet)
CE	-	EN62368-1
CB	IEC60601-1-11	IEC62368-1

EMC

Emissions	Medical	ITE
Conducted	IEC/EN 60601-1-2, CISPR 1	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	±2KV 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