

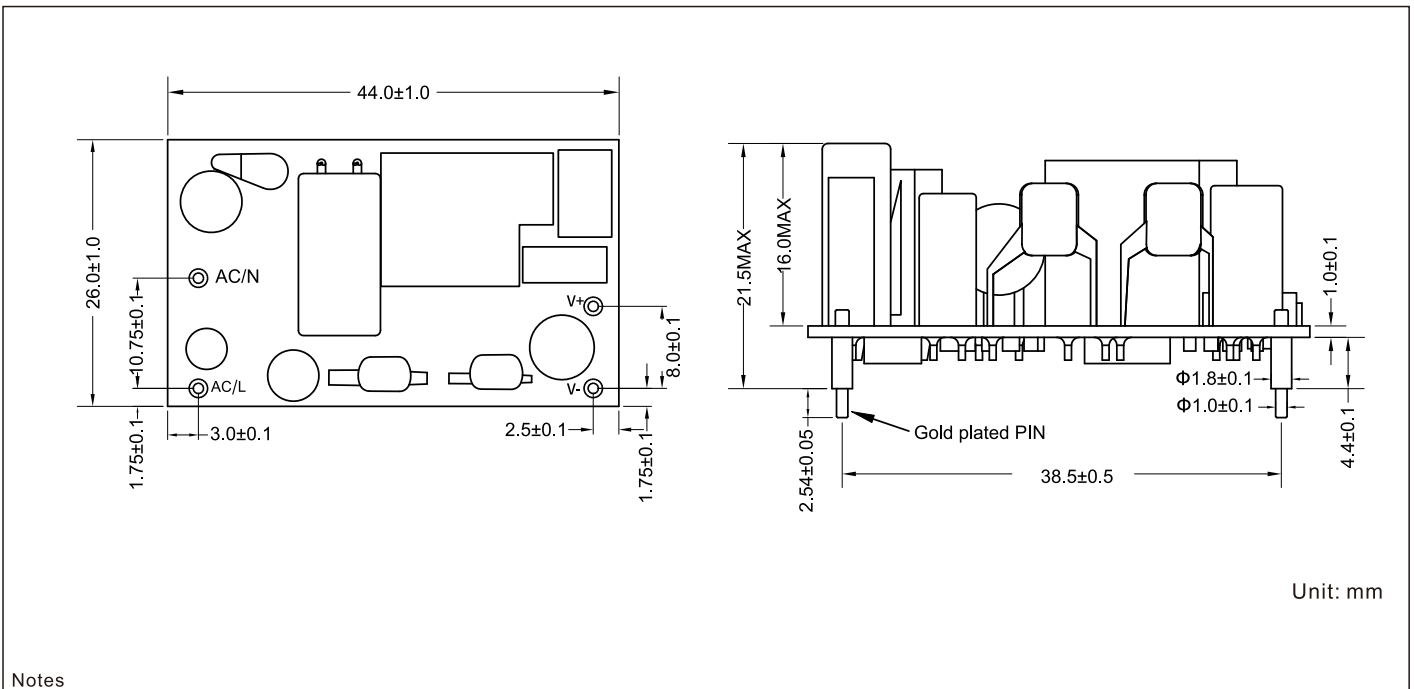
Class II

Product Features

- Medical safety approvals
- 2 MOPP input to output isolation
- No load power consumption <math><0.075W</math>
- Leakage current $\leq 100\mu A$
- Up to 5,000m operating altitude


Models & Ratings

Model Number	Voltage ^(*1)	Current	Rated Power	Ripple & Noise (max) ^(*2)	Voltage Tolerance	Line & Load Regulation	Efficiency (Average)	Start Up Delay
UES10-120085SPA-OP	12.0V	0.01-0.85A	10.00W	150mVpk-pk	$\pm 2.5\%$	Line: $\pm 2.5\%$ Load: $\pm 2.5\%$	80.00%	$\leq 3s$

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	85-265VAC
Frequency Range	47-63Hz
Input Current	0.5A at 85VAC
Inrush Current	130A max at 240VAC cold start
Touch Leakage Current ^(max)	≤ 100µA at 264VAC

Environmental

Operating Temperature	-5°C to 50°C
Storage Temperature	-40°C to 80°C
Operating Humidity	10% to 90% RH, non-condensing
Storage Humidity	5% to 95% RH
Operating Altitude	5,000m

General

Dimensions	44.0(L) 26.0(W) 21.5(H)mm
Weight	18g
MTBF	>100,000hrs MIL-HK8K-217 at 25°C

Protection

Overload	110-160% rated output power, auto recovery
Over Voltage	Min 120% rated output voltage input to reset
Short Circuit	Trip and restart (hiccup mode)

Safety Approvals

Safety Agency / Mark	Medical(meet)
UL	UL60601-1

EMC

Emissions	Medical
Conducted	IEC/EN 60601-1-2, CISPR 11
Radiated	IEC/EN 60601-1-2, CISPR 11
Harmonic Currents	EN61000-3-2, Class A
Voltage Flicker	EN61000-3-3
Immunity	IEC/EN 60601-1-2
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, ±4KV line to GND
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	100M Ohms, 500VDC input to output