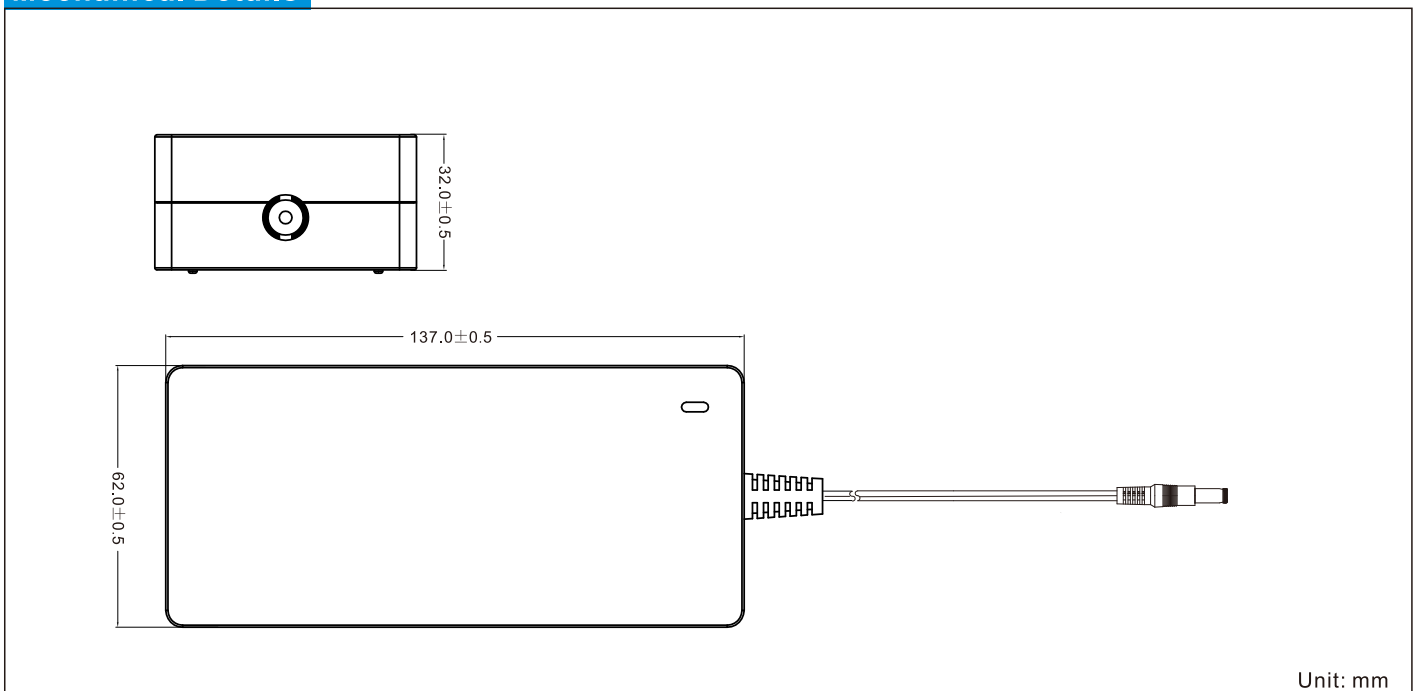


IP22 Class I&II 
Product Features

- Medical & I.T.E. safety approvals
- 2 MOPP input to output isolation
- Touch current : $\leq 100\mu\text{A}$
- Energy efficiency level VI
- $\leq 0.21\text{W}$ standby power
- 19.0V-48.0V outputs, up to 80W
- Up to 5,000m operating altitude
- Can withstand up to 2.7 times over power
1.5 seconds without protection


Models & Parameters

Model Number	Voltage ^(*) (V)	Current (A)	Rated Power	Ripple & Noise (max) ^(*) (2)	Voltage Tolerance	Line & Load Regulation	Efficiency (Average)	Start Up Delay
UES80D-XXXYYYS-PAZ	12.0	6.00	72W	240mVpk-pk	$\pm 5\%$	Line: $\pm 1\%$ Load: $\pm 5\%$	88.00% Min	$\leq 3\text{s}$
	15.0	5.00	75W	240mVpk-pk	$\pm 5\%$		88.00% Min	$\leq 3\text{s}$
	19.0	4.00	76W	240mVpk-pk	$\pm 5\%$		88.00% Min	$\leq 3\text{s}$
	24.0	3.33	80W	240mVpk-pk	$\pm 5\%$		88.00% Min	$\leq 3\text{s}$
	36.0	2.23	80W	240mVpk-pk	$\pm 5\%$		88.00% Min	$\leq 3\text{s}$
	48.0	1.67	80W	240mVpk-pk	$\pm 5\%$		88.00% Min	$\leq 3\text{s}$

Mechanical Details

Notes

Output ripple : 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	1.2A at 90VAC
Inrush Current	120A max at 240VAC cold start
Touch Leakage Current	≤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	137(L) 62(W) 32(H)mm
Weight(about)	300g
MTBF	>100,000hrs MIL-HDBK-217 at 25°C

Protection

Overload	120-300% rated output power
Over Voltage	120-200% rated output voltage
Short Circuit	No damage

Safety Approvals

Safety Agency / Mark	Medical (meet)	ITE
CB	IEC60601-1	
UL	ANSI/AAMI ES60601-1 CAN/CSA C22.2 NO.60601-1	
TUV-Mark	ENC60601-1	

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
Surge	IEC61000-4-5	±2KV line to line (different mode)
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 or 5,656VDC input to output
Insulation Resistance	100M Ohms, 500VDC input to output