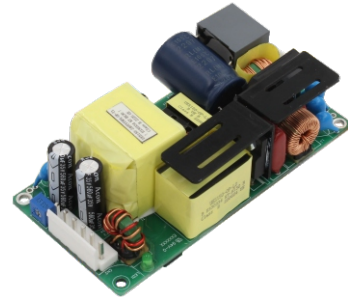


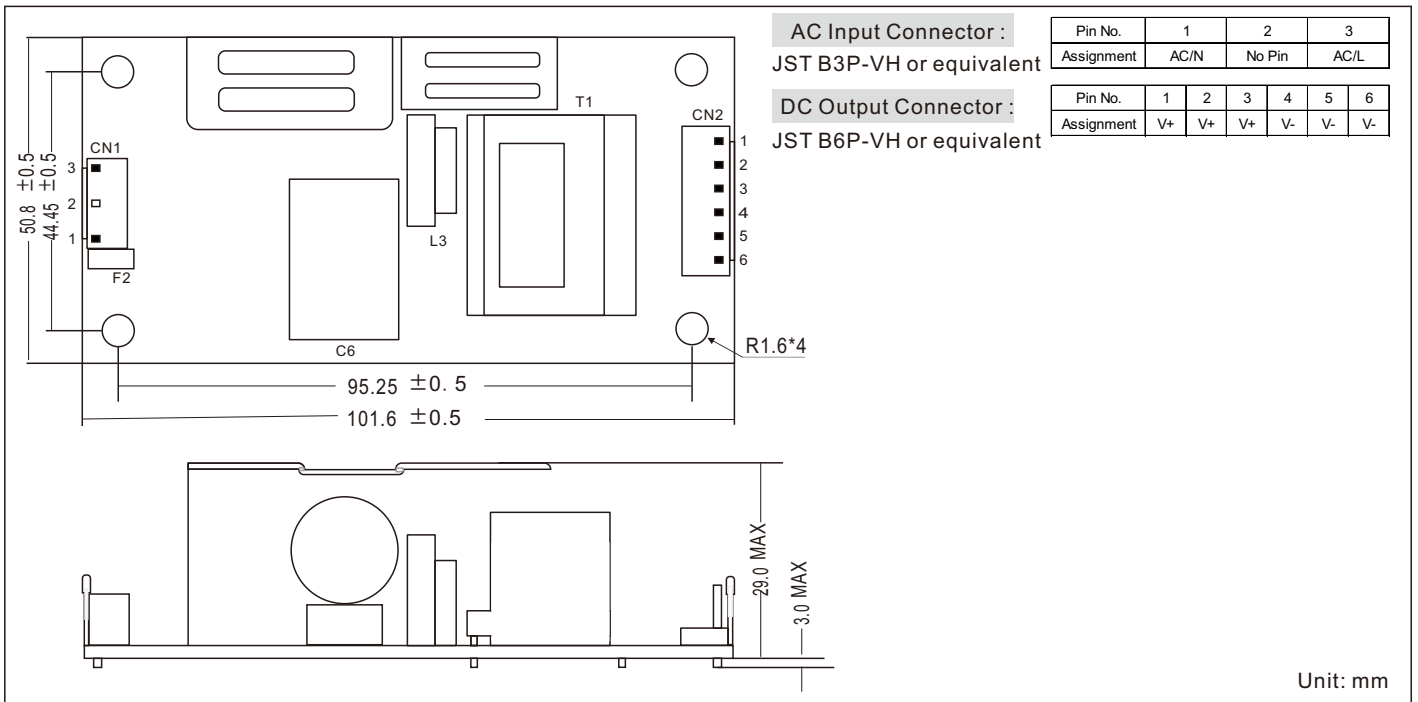
(VI)

Product Features

- Medical safety approvals
- 2 MOPP input to output isolation
- Leakage current: $\leq 100\mu\text{A}$
- Energy efficiency level VI
- $\leq 0.21\text{W}$ standby power
- Peak Load : 150% Rated Load @ 230Vac
- Up to 5,000m operating altitude
- Adjustable resistance to adjust output voltage
- Fan less design, natural air cooling


Models & Parameters

Model Number	Voltage ^(*) (V)	Current (A)	Rated Power	Ripple & Noise _(max) ^(*)	Voltage Tolerance	Line & Load Regulation	Efficiency (Average)	Start Up Delay
UES150-XXXYYYYSPA-OP	12.00V	0.01-11.00A	132.0W	100mVpk-pk	$\pm 5\%$	Line: $\pm 1\%$ Load: $\pm 5\%$	92.0%	$\leq 3\text{s}$
	15.00V	0.01-9.00A	135.0W	100mVpk-pk	$\pm 5\%$		92.0%	$\leq 3\text{s}$
	18.00V	0.01-8.00A	144.0W	120mVpk-pk	$\pm 5\%$		93.0%	$\leq 3\text{s}$
	24.00V	0.01-6.00A	144.0W	120mVpk-pk	$\pm 5\%$		93.0%	$\leq 3\text{s}$
	36.00V	0.01-4.00A	144.0W	120mVpk-pk	$\pm 5\%$		94.0%	$\leq 3\text{s}$
	48.00V	0.01-3.12A	150.0W	120mVpk-pk	$\pm 5\%$		94.0%	$\leq 3\text{s}$

Mechanical Details

Notes

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

 (*2) Measured at output connector with 20MHz bandwidth and 0.1 μF ceramic in parallel with 47 μF electrolytic capacitors

Input

Input Voltage Range	90-264VAC
Frequency Range	47-63Hz
Input Current	2.0A max at 100VAC
Inrush Current	120A max at 240VAC cold start
Touch Leakage Current ^(max)	≤100μA at 264VAC

Environmental

Operating Temperature	-30°C to 70°C(50°C to 70°C refer to derating curve)
Storage Temperature	-40°C to 80°C
Operating Humidity	5% to 90% RH, non-condensing
Storage Humidity	5% to 95% RH
Operating Altitude	5,000m

General

Dimensions	101.6(L) 50.8(W) 32.0(H)mm 4x2"
Weight	180g
MTBF	>200,000hrs MIL-HDBK-217 at 25°C

Protection

Overload	120-200% rated output power, auto recovery
Over Voltage	120-150% rated output voltage input to reset
Short Circuit	Trip and restart (hiccup mode)

Safety Approvals

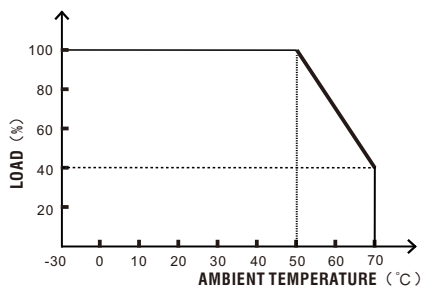
Safety Agency / Mark	Medical(meet)	ITE
CB	IEC60601-1	-
TUV-SUD-Mark	EN60601-1	-
NRTL	ANSI/AAMI ES60601-1 CAN/CSA-C22.2 NO. 60601-1	-

EMC

Emission	Medical	ITE
Conduction	IEC/EN60601-1-2,CISPR 11 ^(*)	-
Radiation	IEC/EN60601-1-2,CISPR 11 ^(*)	-
Harmonic Currents	EN61000-3-2, Class A	-
Voltage Flicker	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	±2KV line - line ,±4KV line - earth
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

Derating Curve


Notes

(*1) Class I meets Class A, Class II meets Class B.