

**CB**
**Universal 36 Watts - UES36-SPA-OP3 Series**
**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
- $\leq 0.1\text{W}$  standby power
- 9.0V-24.0V outputs, up to 36W
- Up to 5,000m operating altitude
- Convection cool


**Models & Parameters**

Model Number	Voltage <sup>(*)</sup> (V)	Current (A)	Rated Power	Ripple & Noise (max) <sup>(*)</sup> (*)	Voltage Tolerance	Line & Load Regulation	Efficiency (Average)	Start Up Delay
UES36-XXXXXXSPA-OP3	9.0	3.00	27.00W	200mVpk-pk	±5%	Line: ±2% Load: ±5%	86.62%	≤3s
	12.0	3.00	36.00W	200mVpk-pk	±5%		87.40%	≤3s
	15.0	2.40	36.00W	200mVpk-pk	±5%		87.40%	≤3s
	19.0	1.89	36.00W	200mVpk-pk	±5%		87.40%	≤3s
	24.0	1.50	36.00W	200mVpk-pk	±5%		87.40%	≤3s

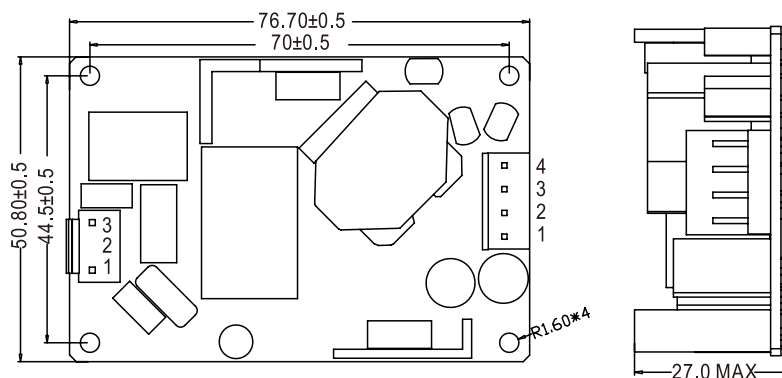
**Mechanical Details**

AC Input Connector :  
JST B3P-VH or equivalent

Pin No.	1	2	3
Assignment	AC/N	No Pin	AC/L

DC Output Connector :  
JST B4P-VH or equivalent

Pin No.	1	2	3	4
Assignment	V+	V+	V-	V-



Unit: mm

**Input**

Input Voltage Range	90-264VAC
Frequency Range	47-63Hz
Input Current	1,2A at 90VAC
Inrush Current	70A max at 240VAC cold start
Touch Leakage Current <sup>(max)</sup>	≤100µA at 264VAC

**Environmental**

Operating Temperature	-10°C to 50°C
Storage Temperature	-20°C to 80°C
Operating Humidity	10% to 90% RH, non-condensing
Storage Humidity	5% to 90% RH
Operating Altitude	5,000m

**General**

Dimensions	76(L) 51(W) 26(H)mm
Weight	75g
MTBF	>100,000hrs MIL-HDBK-217 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(meet)	ITE(meet))
CB	IEC60601-1	IEC62368-1
UL	ANSI/AAMI ES60601-1 CAN/CSA C22.2 NO. 60601-1	UL62368-1 CAN/CSA C22.2 NO. 62368-1
TüV Mark	EN60601-1	-

**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, ±1KV on signal ports
Surge	IEC61000-4-5	±2KV 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