UE Electronic

Switching Power Adaptor
Open frame style

Universal 20Watts - UE20-SPA-OP Series

CB

Product Features

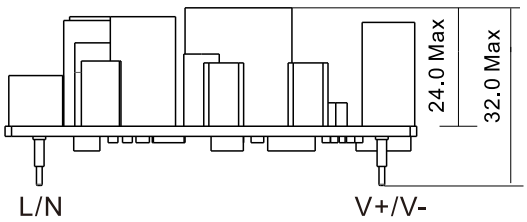
- Meet medical & I.T.E. safety approvals
- 2 MOPP input to output isolation
- Leakage current ≤ 100μA
- Energy efficiency level V
- ≤ 0.3W standby power
- Up to 5,000m operating altitude

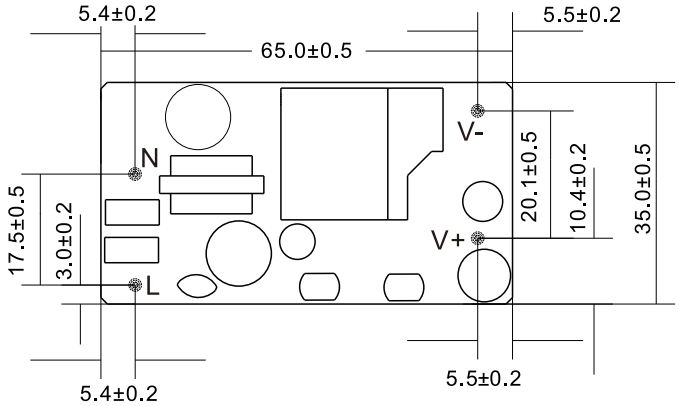


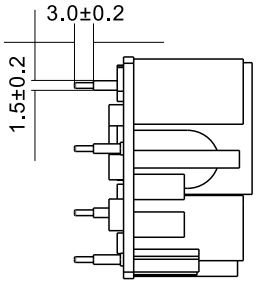
Models & Parameters

Model Number	Voltage (V)	Current (A)	Rated Power	Ripple & Noise (max)	Voltage Tolerance	Line & Load Regulation	Efficiency (Average)	Start Up Delay
UE20-XXXYYYSPA-OP	9.0	1.67	15.03W	150mVpk-pk	±5%	Line: ±1% Load: ±5%	79.16%	≤3s
	12.0	1.67	20.04W	200mVpk-pk	±5%		80.97%	≤3s
	15.0	1.34	20.01W	200mVpk-pk	±5%		80.98%	≤3s

Mechanical Details







Unit: mm

Input

Input Voltage Range	90-264VAC
Frequency Range	47-63Hz
Input Current	0.5A at 100VAC
Inrush Current	60A max at 240VAC cold start
Touch Leakage Current (max)	≤100μA at 264VAC

Environmental

Operating Temperature	-10℃ to 70℃(50℃ to 70℃ refer to derating curve)
Storage Temperature	-20℃ to 70℃
Operating Humidity	10% to 90% RH, non-condensing
Storage Humidity	5% to 90% RH
Operating Altitude	5,000m

General

Dimensions	65(L) 35(W) 24(H)mm
Weight	54g
MTBF	>100,000hrs MIL-HDBK-217 at 25℃

Protection

Overload	105-210% rated output power, auto recovery
Over Voltage	105-250% rated output voltage input to reset
Short Circuit	Trip and restart (hiccup mode)

Safety Approvals

Safety Agency / Mark	Medical
CB	IEC60601-1
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	±1KV 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

Derating Curve

