

#### Universal 65 Watt - UES65CZ-SPA Series

Ip20 Class I & II (VI)



# **Product Features**

- Medical safety approvals
- 2 MOPP input to output isolation
- Touch current ≤ 100µA
- Energy efficiency level VI
- ≤ 0.15W standby power
- Peak load: 140W MAX @Rated Input Voltage
- Up to 5,000m operating altitude
- 3 types of AC inlet

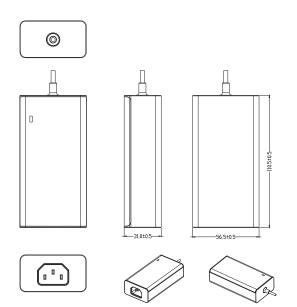


Models & Ratings		Иo	de	Is	&	R	ati	ng	S
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Model Number	Voltage <sup>(*1)</sup>	Current	Rated Power	Ripple & Noise	Voltage Tolerance	Line & Load Regulation	Efficiency	Start U <sub>l</sub> Delay
	12.0	0.01-5.0	60W	200mVpk-pk	±5%	Line: ±1% Load: ±5%	88.0%	≤3s
	12.1-13.0	0.01-4.61	60W	200mVpk-pk	±5%		88.0%	≤3s
	13.1-14.0	0.01-4.28	60W	200mVpk-pk	±5%		88.0%	≤3s
	14.1-15.0	0.01-4.00	60W	200mVpk-pk	±5%		88.0%	≤3s
	19.0	0.01-3.42	65W	200mVpk-pk	±5%		88.0%	≤3s
UES65CZ-XXXYYYSPA	19.1-20.0	0.01-3.25	65W	240mVpk-pk	±5%		88.0%	≤3s
UES65CZ-XXXYYYSPA	20.1-21.0	0.01-3.09	65W	240mVpk-pk	±5%		88.0%	≤3s
	21.1-22.0	0.01-2.95	65W	240mVpk-pk	±5%		88.0%	≤3s
	22.1-23.0	0.01-2.82	65W	240mVpk-pk	±5%		88.0%	≤3s
	23.1-24.0	0.01-2.71	65W	240mVpk-pk	±5%		88.0%	≤3s

Model encoding: replace "Z" with "1" for C8 (Class II), "2" for C6 (Class I), "3" for C14 (Class I) AC inlets

#### **Mechanical Details**



# **AC Inlet Options**









C14 (C3)

DC Cable:UL 1185 16AWG 1,500mm

Connector: 2.5x5.5x11mm, fork type, centre "+"

- (\*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.
- (\*3) Polarized C8 is available.



#### Universal 65 Watt - UES65CZ-SPA Series

>50,000hrs MIL-HKBK-217 at 25°C

# Input

Input Voltage Range 90-264VAC
Frequency Range 47-63Hz
Input Current 1.8A at 90VAC

Inrush Current 120A max at 240VAC cold start

Touch Leakage Current (max) ≤100µA at 264VAC

# **Environmental**

General

**MTBF** 

Operating Temperature  $0^{\circ}\text{C}$  to  $40^{\circ}\text{C}$  Dimensions 110.5(L)x56.5(W)x31.0(H)mm Storage Temperature  $-20^{\circ}\text{C}$  to  $60^{\circ}\text{C}$  Weight 260g

Operating Humidity 10% to 90% RH, non-condensing

Storage Humidity 5% to 90% RH Operating Altitude 5,000m

#### **Protection**

Overload 220-330% rated output power, auto recovery
Over Voltage 110-145% rated output voltage input to reset
Short Circuit Trip and restart (hiccup mode)

# Safety Approvals

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

# **EMC**

Emissons	Medical
Conducted Radiated Harmonic Currents Voltage Flicker	IEC/EN 60601-1-2,CISPR 11 IEC/EN 60601-1-2,CISPR 11 EN61000-3-2, Class A EN61000-3-3
Immunity	IEC/EN 60601-1-2
ESD Radiated Immunity EFT/Burst Surge Conducted Immunity Magnetic Field Dips & Interruptions	EN61000-4-2 ±15kV air, ±8kV contact EN61000-4-3 10V/m ,3V/m 80MHz - 2.7GMHz EN61000-4-4 ±2kV on AC port, ±1kV on signal ports EN61000-4-5 ±1KV line to line (diff mode) EN61000-4-6 3Vrms, 6Vrms (0.15MHz-80MHz) EN61000-4-8 30 A/m EN61000-4-11 0%, 70%, 0% of UT

#### **Others**

Dielectric Withstand Voltage	5,656VDC input to output
Insulation Resistance	10M Ohms, 500VDC input to output