

Product Features

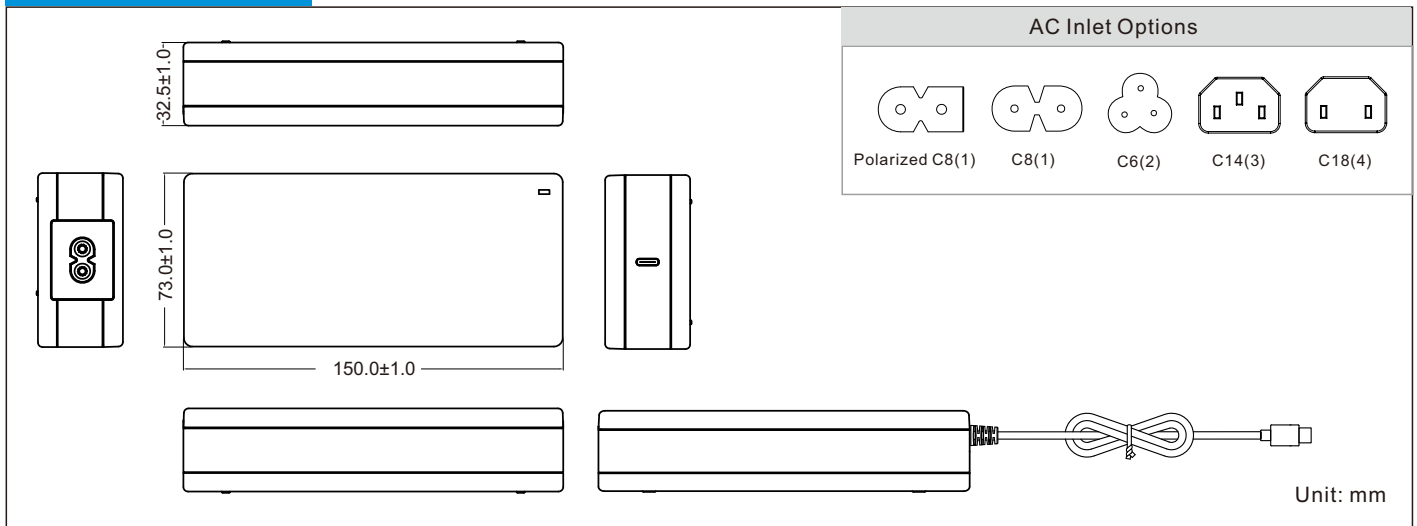
- Meets medical & I.T.E. safety approvals
- 2 MOPP input to output isolation
- Leakage current $\leq 100\mu\text{A}$
- Energy efficiency level VII
- $\leq 0.15\text{W}$ standby power
- 5V/9V/12V/15V/20V/28V/36V/48V outputs, up to 240W
- Up to 5,000m operating altitude
- Meet USB PD3.2&AVS&PPS&QC3.0 fast charge agreement
- USB port /fixed cable design


Models & Parameters

| Model Number | Voltage ^(*) (V) | Current (A) | Rated Power | Ripple & Noise _(max) | Voltage Tolerance | Line & Load Regulation | Efficiency (Average) | Start Up Delay |
|------------------------------|----------------------------|-------------|-------------|---------------------------------|-------------------|------------------------------------|----------------------|------------------|
| UES240E-SPCZ UES240F-SPCZ | 5.0 | 0.01-3.00 | 15.00W | 250mVpk-pk | $\pm 5\%$ | Line: $\pm 2\%$ Load: $\pm 5\%$ | 82.0% | $\leq 3\text{s}$ |
| | 9.0 | 0.01-3.00 | 27.00W | 250mVpk-pk | $\pm 5\%$ | | 87.3% | $\leq 3\text{s}$ |
| | 12.0 | 0.01-3.00 | 36.00W | 250mVpk-pk | $\pm 5\%$ | | 88.3% | $\leq 3\text{s}$ |
| | 15.0 | 0.01-3.00 | 45.00W | 250mVpk-pk | $\pm 5\%$ | | 88.9% | $\leq 3\text{s}$ |
| | 20.0 | 0.01-5.00 | 100.00W | 300mVpk-pk | $\pm 5\%$ | | 89.5% | $\leq 3\text{s}$ |
| | 28.0 | 0.01-5.00 | 140.00W | 350mVpk-pk | $\pm 5\%$ | | 90.0% | $\leq 3\text{s}$ |
| | 36.0 | 0.01-5.00 | 180.00W | 350mVpk-pk | $\pm 5\%$ | | 91.0% | $\leq 3\text{s}$ |
| | 48.0 | 0.01-5.00 | 240.00W | 400mVpk-pk | $\pm 5\%$ | | 91.5% | $\leq 3\text{s}$ |

Model encoding:

Replace "Z" with "1" for C8 (Class II), "2" for C6 (Class I), "3" for C14 (Class I), "4" for C18 (Class II) AC inlets
 UES240E-SPCZ with output terminal Type-C, UES240F-SPCZ with DC cable

Mechanical Details

Notes

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

Input

| | |
|--|--|
| Input Voltage Range | 90-264VAC(Class I);80-264VAC(Class II) |
| Frequency Range | 47-63Hz |
| Input Current | 4.0A max at 80VAC |
| Touch Leakage Current ^(max) | ≤ 100μA at 264VAC |

Environmental

| | |
|-----------------------|-------------------------------|
| Operating Temperature | -10°C to 40°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 | 150.0(L) 73.0(W) 32.5(H)mm |
| Weight | 650g±15g |
| MTBF | >100,000hrs Telcordia_SR-332 at 25°C |

Protection

| | |
|---------------|--|
| Overload | 105-140% rated output power, auto recovery |
| Over Voltage | 110-130% rated output voltage input to reset |
| Short Circuit | Trip and restart (hiccup mode) |

Safety Meet

| Safety Agency / Mark | Medical | ITE |
|----------------------|---|---------------------------------------|
| CB | IEC60601-1/IEC60601-1-11 | IEC62368-1 |
| UL | ANSI/AAMI ES60601-1/60601-1-11 CAN/CSA-C22.2 NO. 60601-1 | UL62368-1 CAN/CSA C22.2 NO.62368-1 |
| TüV-SUD/Mark | EN60601-1/60601-1-11 | - |
| CE | - | EN62368 |
| FCC | - | FCC PART 15 |
| | | - |

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 | 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 Neutral ,±4KV line/Neutral to GND |
| 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 | 100M Ohms, 500VDC input to output |