

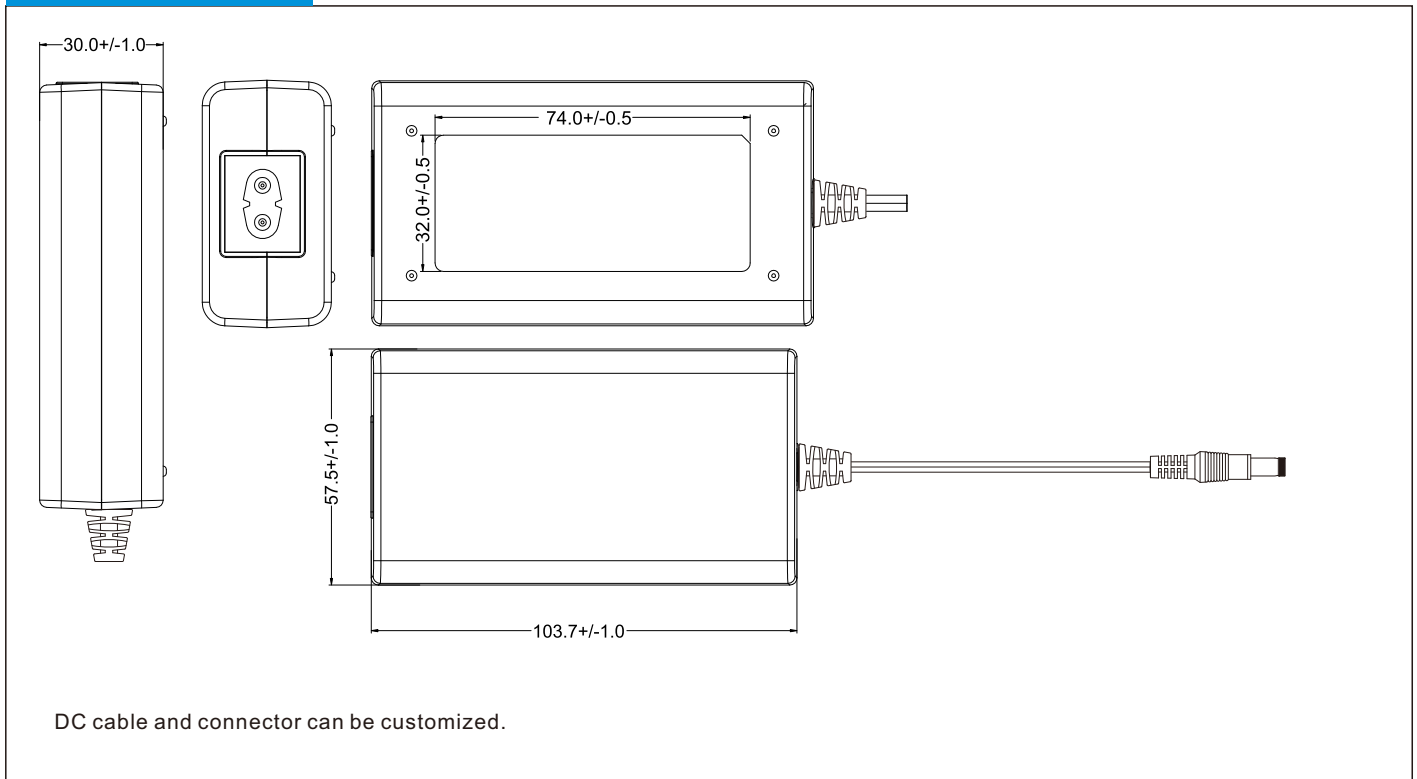

FC IP 42 Class II (VI)

Product Features

- Medical & ITE safety approvals
- 2 MOPP input to output isolation
- Leakage current $\leq 100\mu\text{A}$
- Energy efficiency level VI
- $\leq 0.075\text{W}$ standby power
- 5V to 48V outputs, up to 36W
- Up to 5,000m operating altitude


Models & Ratings

| Model Number | Voltage (V) | Current (A) | Rated Power (max) | Ripple & Noise (max) | Voltage Tolerance | Line & Load Regulation | Efficiency (Average) | Start Up Delay (@115V&230V) |
|-------------------|-------------|-------------|-------------------|----------------------|-------------------|------------------------------------|----------------------|-----------------------------|
| UES36C1-XXXXYYSPA | 5.0 | 0.01-6.00 | 30.0W | 200mVpk-pk | $\pm 8\%$ | Line: $\pm 1\%$ Load: $\pm 5\%$ | 85.00% | $\leq 3\text{s}$ |
| | 5.1-5.9 | 0.01-5.00 | 30.0W | 200mVpk-pk | $\pm 5\%$ | | 88.30% | $\leq 3\text{s}$ |
| | 7.5-14.0 | 0.01-4.00 | 36.0W | 200mVpk-pk | $\pm 5\%$ | | 88.30% | $\leq 3\text{s}$ |
| | 14.1-21.0 | 0.01-2.40 | 36.0W | 200mVpk-pk | $\pm 5\%$ | | 88.30% | $\leq 3\text{s}$ |
| | 21.1-30.0 | 0.01-1.63 | 36.0W | 200mVpk-pk | $\pm 5\%$ | | 88.30% | $\leq 3\text{s}$ |
| | 30.1-48.0 | 0.01-1.16 | 36.0W | 300mVpk-pk | $\pm 5\%$ | | 88.30% | $\leq 3\text{s}$ |

Mechanical Details


Input

| | |
|--|------------------------------|
| Input Voltage Range | 80-264VAC |
| Frequency Range | 47-63Hz |
| Input Current | 1.0A at 80VAC |
| Inrush Current | 70A max at 240VAC cold start |
| Touch Leakage Current ^(max) | ≤100µA at 264VAC |

Environmental

| | |
|-----------------------|-------------------------------|
| Operating Temperature | 0°C to 45°C |
| Storage Temperature | -20°C to 60°C |
| Operating Humidity | 10% to 90% RH, non-condensing |
| Storage Humidity | 5% to 90% RH |
| Operating Altitude | 5,000m |

General

| | |
|------------|----------------------------------|
| Dimensions | 103.7(L) 57.5(W) 30.0(H)mm |
| Weight | 210g |
| MTBF | >100,000hrs MIL-HDBK-217 at 25°C |
| Isolation | 4,000VAC Input to Output |

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 | ITE |
|----------------------|---|-------------|
| CB | IEC60601-1/60601-1-11 ANSI/AAMI ES60601-1/60601-1-11 | IEC62368-1 |
| UL | CAN/CSA-C22.2 NO. 60601-1 | UL62368-1 |
| TUV Rheinland/Mark | EN60601-1/EN60601-1-11 | - |
| TUV Rheinland/GS | - | EN62368-1 |
| CE | - | EN62368-1 |
| CCC | - | GB4943 |
| PSE | - | J62368 |
| KC | - | K60950 |
| RCM | - | AS/NES62368 |
| FCC | - | FCC PART 15 |

EMC

| Emissions | Medical | ITE |
|----------------------|----------------------------|---------------------------------------|
| Conducted | IEC/EN 60601-1-2, CISPR 11 | EN55032, CISPR32 |
| Radiated | IEC/EN 60601-1-2, CISPR 11 | EN55032, CISPR32 |
| Harmonic Currents | EN61000-3-2, Class A | EN61000-3-2, Class A |
| Voltage Flicker | EN61000-3-3 | EN61000-3-3 |
| Immunity | IEC/EN 60601-1-2 | EN55035, CISPR 35 |
| ESD | EN61000-4-2 | ±15KV air, ±8KV contact |
| Radiated Immunity | EN61000-4-3 | 10V/m, 3V/m 80MHz - 2700MHz |
| EFT/Burst | EN61000-4-4 | ±2KV on AC port, ±1KV on signal ports |
| Surge ^(*) | EN61000-4-5 | ±4KV line to line (DM) |
| Conducted Immunity | EN61000-4-6 | 3Vrms, 6Vrms (0.15MHz-80MHz) |
| Magnetic Field | EN61000-4-8 | 30 A/m |
| Dips & Interruptions | EN61000-4-11 | 0%, 70%, 0% of UT |

Others

| | |
|------------------------------|----------------------------------|
| Dielectric Withstand Voltage | 4000VAC input to output |
| Insulation Resistance | 10M Ohms, 500VDC input to output |