



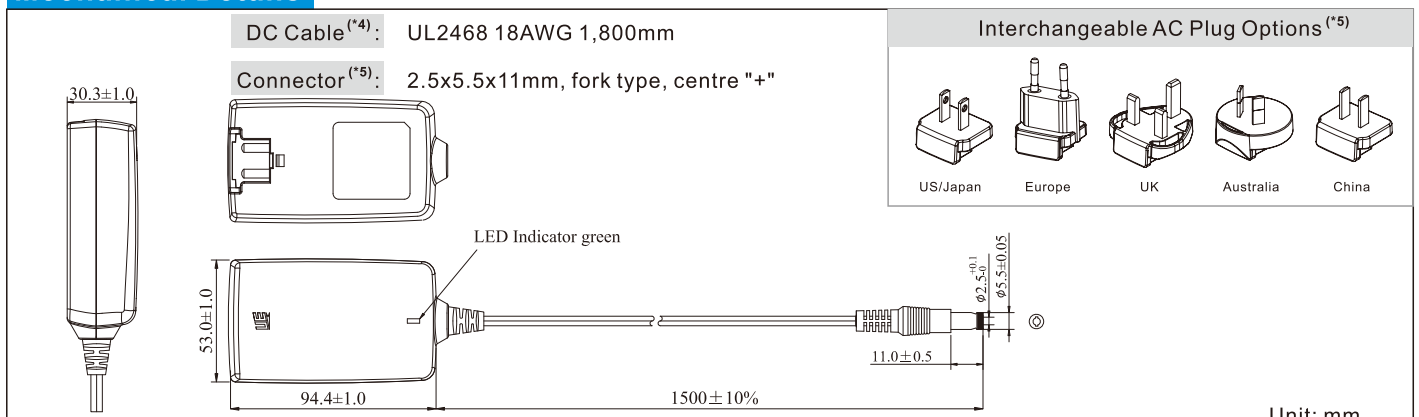
IP20 Class II (V)

Product Features

- Medical & ITE safety approvals
- 2 MOPP input to output isolation
- Suitable for medical equipment up to class BF^(*)
- Low leakage current $\leq 100\mu\text{A}$
- Efficiency level V
- $\leq 0.3\text{W}$ standby power
- 3V to 24V outputs, up to 24W
- Up to 2,000m operating altitude
- Interchangeable AC plugs


Models & Ratings

| Model Number | Voltage ^(*) (V) | Current (A) | Rated Power | Ripple & Noise (max) ^(*) | Voltage Tolerance | Line & Load Regulation | Efficiency (Average) | Start Up Delay |
|--------------------|-------------------------------|----------------|----------------|--|----------------------|---------------------------|-------------------------|-------------------|
| UE24WZ1-030YYYSAPA | 3.0 | 0.1-3.0 | 9.0W | 200mVpk-pk | ±10% | | - | ≤3s |
| UE24WZ1-033YYYSAPA | 3.3 | 0.1-3.0 | 9.9W | 200mVpk-pk | ±10% | | - | ≤3s |
| UE24WZ1-036YYYSAPA | 3.6 | 0.1-3.0 | 10.8W | 200mVpk-pk | ±5% | | - | ≤3s |
| UE24WZ1-040YYYSAPA | 4.0 | 0.1-3.0 | 12.00W | 200mVpk-pk | ±5% | | - | ≤3s |
| UE24WZ1-042YYYSAPA | 4.2 | 0.1-3.0 | 12.60W | 200mVpk-pk | ±5% | | - | ≤3s |
| UE24WZ1-045YYYSAPA | 4.5 | 0.1-3.0 | 13.50W | 200mVpk-pk | ±5% | | - | ≤3s |
| UE24WZ1-048YYYSAPA | 4.8 | 0.1-3.0 | 14.40W | 200mVpk-pk | ±5% | | - | ≤3s |
| UE24WZ1-050YYYSAPA | 5.0 | 0.1-3.0 | 15.00W | 200mVpk-pk | ±5% | | 76.42% | ≤3s |
| UE24WZ1-052YYYSAPA | 5.2 | 0.1-3.0 | 15.60W | 200mVpk-pk | ±5% | | 76.71% | ≤3s |
| UE24WZ1-055YYYSAPA | 5.5 | 0.1-3.0 | 16.50W | 200mVpk-pk | ±5% | | 77.13% | ≤3s |
| UE24WZ1-060YYYSAPA | 6.0 | 0.1-3.0 | 18.00W | 200mVpk-pk | ±5% | | 80.14% | ≤3s |
| UE24WZ1-065YYYSAPA | 6.5 | 0.1-3.0 | 19.50W | 200mVpk-pk | ±5% | | 80.92% | ≤3s |
| UE24WZ1-070YYYSAPA | 7.0 | 0.1-3.0 | 21.00W | 200mVpk-pk | ±5% | | 81.39% | ≤3s |
| UE24WZ1-075YYYSAPA | 7.5 | 0.1-3.0 | 22.50W | 200mVpk-pk | ±5% | | 81.82% | ≤3s |
| UE24WZ1-080YYYSAPA | 8.0 | 0.1-2.66 | 21.28W | 200mVpk-pk | ±5% | | 81.47% | ≤3s |
| UE24WZ1-085YYYSAPA | 8.5 | 0.1-2.66 | 22.61W | 200mVpk-pk | ±5% | Line: ±1% | 81.85% | ≤3s |
| UE24WZ1-090YYYSAPA | 9.0 | 0.1-2.66 | 23.94W | 200mVpk-pk | ±5% | Load: ±5% | 82.23% | ≤3s |
| UE24WZ1-098YYYSAPA | 9.8 | 0.1-2.40 | 23.52W | 200mVpk-pk | ±5% | | 82.23% | ≤3s |
| UE24WZ1-100YYYSAPA | 10.0 | 0.1-2.40 | 24.00W | 200mVpk-pk | ±5% | | 82.23% | ≤3s |
| UE24WZ1-105YYYSAPA | 10.5 | 0.1-2.18 | 22.89W | 200mVpk-pk | ±5% | | 82.23% | ≤3s |
| UE24WZ1-120YYYSAPA | 12.0 | 0.1-2.00 | 24.00W | 200mVpk-pk | ±5% | | 82.23% | ≤3s |
| UE24WZ1-126YYYSAPA | 12.6 | 0.1-1.84 | 23.18W | 200mVpk-pk | ±5% | | 82.23% | ≤3s |
| UE24WZ1-130YYYSAPA | 13.0 | 0.1-1.84 | 23.92W | 200mVpk-pk | ±5% | | 82.23% | ≤3s |
| UE24WZ1-138YYYSAPA | 13.8 | 0.1-1.71 | 23.60W | 200mVpk-pk | ±5% | | 82.23% | ≤3s |
| UE24WZ1-150YYYSAPA | 15.0 | 0.1-1.60 | 24.00W | 200mVpk-pk | ±5% | | 82.23% | ≤3s |
| UE24WZ1-160YYYSAPA | 16.0 | 0.1-1.50 | 24.00W | 200mVpk-pk | ±5% | | 82.23% | ≤3s |
| UE24WZ1-165YYYSAPA | 16.5 | 0.1-1.41 | 23.27W | 200mVpk-pk | ±5% | | 82.23% | ≤3s |
| UE24WZ1-180YYYSAPA | 18.0 | 0.1-1.33 | 23.94W | 200mVpk-pk | ±5% | | 82.23% | ≤3s |
| UE24WZ1-180YYYSAPA | 20.0 | 0.1-1.20 | 24.00W | 200mVpk-pk | ±5% | | 82.23% | ≤3s |
| UE24WZ1-180YYYSAPA | 22.0 | 0.1-1.09 | 23.98W | 200mVpk-pk | ±5% | | 82.23% | ≤3s |
| UE24WZ1-180YYYSAPA | 23.0 | 0.1-1.04 | 23.92W | 200mVpk-pk | ±5% | | 82.23% | ≤3s |
| UE24WZ1-180YYYSAPA | 24.0 | 0.1-1.00 | 24.00W | 200mVpk-pk | ±5% | | 82.23% | ≤3s |

Mechanical Details

Notes

(*1, 3, 4, 5) 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.

(^) Power supplies are not medical equipment (applied parts), medical product manufacturers shall take responsibility for further evaluation of class B/BF/CF compliance of their end product.

Input

| | |
|--|------------------------------|
| Input Voltage Range | 90-264VAC |
| Frequency Range | 47-63Hz |
| Input Current | 0.8A at 100-240VAC |
| Inrush Current | 60A 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 | 2,000m |

General

| | |
|------------|----------------------------------|
| Dimensions | 94.4(L)x53(W)x30.3(H)mm |
| Weight | 170g |
| 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 | 120-200% rated output voltage input to reset |
| Short Circuit | Trip and restart (hiccup mode) |

Safety Approvals

| Safety Agency / Mark | Medical | ITE |
|----------------------|------------|------------|
| CB | IEC60601-1 | IEC60950-1 |
| TUV-NRTL | UL60601-1 | UL60950-1 |
| TUV | EN60601-1 | EN60950-1 |

EMC

| Emissions | Medical | ITE |
|----------------------|----------------------------|---------------------------------------|
| Conducted | IEC/EN 60601-1-2, CISPR 11 | EN55022, CISPR 22 |
| Radiated | IEC/EN 60601-1-2, CISPR 11 | EN55022, CISPR 22 |
| Harmonic Currents | EN61000-3-2, Class A | EN61000-3-2, Class A |
| Voltage Flicker | EN61000-3-3 | EN61000-3-3 |
| Immunity | Medical | ITE |
| ESD | EN61000-4-2 | EN55024, CISPR 24 |
| Radiated Immunity | EN61000-4-3 | ±15kV air, ±8kV contact |
| EFT/Burst | EN61000-4-4 | 10V/m 80MHz - 2700MHz |
| Surge | EN61000-4-5 | ±2kV on AC port, ±1kV on signal ports |
| Conducted Immunity | EN61000-4-6 | ±1KV line to line (diff mode) |
| Magnetic Field | EN61000-4-8 | 3Vrms (0.15MHz-80MHz) |
| Dips & Interruptions | EN61000-4-11 | 3 A/m |
| | | 0%, 70%, 0% of UT |

Others

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