

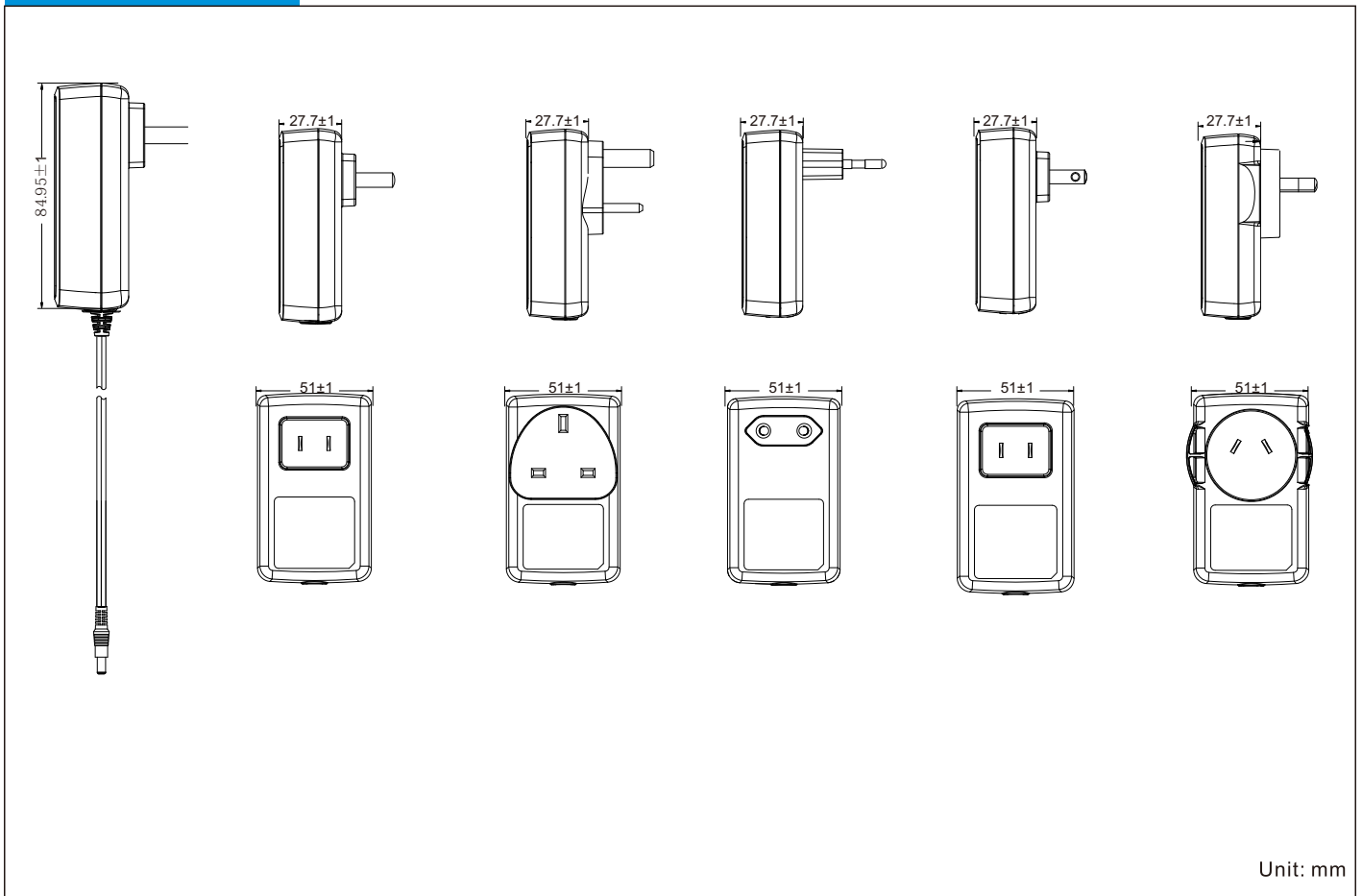
IP20 Class II VI

**Product Features**

- Medical & I.T.E. 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
- 12.0V or 24.0V outputs, up to 36W
- Up to 5,000m operating altitude


**Models & Parameters**

| Model Number       | Voltage <sup>(*)1</sup><br>(V) | Current<br>(A) | Rated<br>Power | Ripple & Noise<br>(max) <sup>(*)2</sup> | Voltage<br>Tolerance | Line & Load<br>Regulation          | Efficiency<br>(Average) | Start Up<br>Delay |
|--------------------|--------------------------------|----------------|----------------|---|----------------------|------------------------------------|-------------------------|-------------------|
| UES36WZ1-XXXXYYSPA | 12.0V                          | 0.01-3.00      | 36.00W         | 120mVpk-pk                              | $\pm 5\%$            | Line: $\pm 3\%$<br>Load: $\pm 5\%$ | 88.3%                   | $\leq 3\text{s}$  |
|                    | 19.0V                          | 0.01-1.89      | 36.00W         | 240mVpk-pk                              | $\pm 5\%$            |                                    | 88.3%                   | $\leq 3\text{s}$  |
|                    | 24.0V                          | 0.01-1.50      | 36.00W         | 240mVpk-pk                              | $\pm 5\%$            |                                    | 88.3%                   | $\leq 3\text{s}$  |

**Mechanical Details**


Unit: mm

**Notes**

(\*)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.

**Input**

|  |                               |
|--|-------------------------------|
| Input Voltage Range                    | 90-264VAC                     |
| Frequency Range                        | 47-63Hz                       |
| Input Current                          | 0.5A at 90VAC                 |
| Inrush Current                         | 100A max at 240VAC cold start |
| Touch Leakage Current <sup>(max)</sup> | ≤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 | 84.95(L) 51(W) 27.7(H)mm         |
| Weight     | 155g                             |
| MTBF       | >100,000hrs MIL-HDBK-217 at 25°C |

**Protection**

|               |  |
|---------------|--|
| Overload      | 110-200% 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         |
|----------------------|------------------|-------------|
| CCC                  | -                | GB4943.1    |
| CB                   | IEC60601-1       | -           |
| TUV SUD/Mark         | EN60601-1        | -           |
| FCC                  | -                | FCC PART 15 |
| NRTL                 | NRTL AAMIES60601 | -           |

**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 - 2700MHz           |
| EFT/Burst            | IEC61000-4-4              | ±2KV on AC port, ±1KV on signal ports |
| Surge                | IEC61000-4-5              | ±6KV 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 |