


**Product Features**

- Meet medical & I.T.E. safety approvals
- 2 MOPP input to output isolation
- Efficiency greater than 82% @ Full load and half load
- Leakage current < 100µA
- ≤ 0.1W standby power
- Up to 5,000m operating altitude


**Models & Ratings**

| Model Number      | Voltage <sup>(*)</sup><br>(V) | Current<br>(A) | Rated Power | Ripple & Noise<br>(max) <sup>(*)</sup> | Voltage Tolerance | Line & Load Regulation | Efficiency (typ.) | Start Up Delay |
|-------------------|-------------------------------|----------------|-------------|--|-------------------|------------------------|-------------------|----------------|
| UE15-XXXXYYSPA-OP | 15.0                          | 0.01-1.00      | 15W         | 200mVpk-pk                             | ±5%               | Line: ±5%<br>Load: ±5% | 82.0%             | ≤3s            |

**Mechanical Details**

**AC Input Connector :**

|            |      |        |      |
|------------|------|--------|------|
| Pin No.    | 1    | 2      | 3    |
| Assignment | AC/N | No Pin | AC/L |

JST B3P-VH or equivalent

**DC Output Connector :**

|            |    |    |
|------------|----|----|
| Pin No.    | 1  | 2  |
| Assignment | v+ | v- |

JST B2P-VH or equivalent

Unit: mm

**Notes**

(\*1) 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 100VAC                |
| Inrush Current                         | 100A max at 240VAC cold start |
| Touch Leakage Current <sup>(max)</sup> | < 100µA at 264VAC             |

**Environmental**

|                       |                               |
|-----------------------|-------------------------------|
| Operating Temperature | 0°C to 70°C                   |
| Storage Temperature   | -20°C to 70°C                 |
| Operating Humidity    | 10% to 90% RH, non-condensing |
| Storage Humidity      | 5% to 90% RH                  |
| Operating Altitude    | 5,000m                        |

**General**

|            |                                  |
|------------|----------------------------------|
| Dimensions | 61(L) 38(W) 23.5(H)mm            |
| Weight     | 40g                              |
| MTBF       | >100,000hrs MIL-HK8K-217 at 25°C |
| Isolation  | 5,656VDC 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(Meet) | ITE(Meet)  |
|----------------------|---------------|------------|
| CB                   | IEC60601-1    | IEC62368-1 |

**EMC**

| Emissions            | Medical                    | ITE                                   |
|----------------------|----------------------------|---------------------------------------|
| Conducted            | IEC/EN 60601-1-2, CISPR 11 | EN55032, CISPR 32                     |
| Radiated             | IEC/EN 60601-1-2, 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/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 - 2.7GMHz           |
| EFT/Burst            | EN61000-4-4                | ±2KV on AC port, ±1KV on signal ports |
| Surge                | EN61000-4-5                | ±2KV 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 |