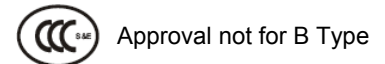


FEATURES

- Splash Proof
- Single Output
- 2 Year Warranty
- Optional Output Connectors
- A & C Types: Class I Insulation
- 3 Types of Inlet Connectors Available
- Wide Input Voltage 90 to 264VAC, 47~63Hz
- B Type: Class II Insulation (Double Insulation)
- Output Voltages Available from 3VDC to 48VDC



SPECIFICATIONS: DTSPU15 Series

All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted.
We reserve the right to change specifications based on technological advances.

| SPECIFICATION | TEST CONDITIONS | Min | Nom | Max | Unit | |
|--|--|---|-----|-------|--------|---|
| INPUT (V_{in}) | | | | | | |
| Operating Voltage Range | | 90 | | 264 | VAC | |
| Input Frequency | | 47 | | 63 | Hz | |
| Input Current (Low Line) | I _o = Full Load, V _{in} = 115VAC | | | 0.4 | A | |
| Input Current (High Line) | I _o = Full Load, V _{in} = 230VAC | | | 0.26 | A | |
| Inrush Current (Low Line) | I _o = Full Load, 25°C, Cool Start, V _{in} = 115VAC | | 12 | 15 | A | |
| Inrush Current (High Line) | I _o = Full Load, 25°C, Cool Start, V _{in} = 230VAC | | 26 | 30 | A | |
| Safety Ground Leakage Current | I _o = Full Load, V _{in} = 240VAC | | 0.5 | 0.75 | mA | |
| Start-Up Time | I _o = Full Load, V _{in} = 100VAC | 0.3 | 1 | 2 | s | |
| OUTPUT (V_o) | | | | | | |
| Output Voltage Range | | See Rating Chart | | | VDC | |
| Load Regulation | V _{in} = 230VAC | | 3 | 10 | % | |
| Line Regulation | I _o = Full Load | | 0.5 | 1 | % | |
| Output Power Range | V _{in} = 90 to 264VAC | 0 | | 15 | W | |
| Output Current Range | | See Rating Chart | | | A | |
| *Ripple & Noise (peak to peak) | Full Load, V _{in} = 90VAC | | 0.5 | 1 | % | |
| Transient Response | I _o = Full Load to Half Load, V _{in} = 100VAC | | | 4 | ms | |
| Hold-Up Time | I _o = Full Load, V _{in} = 110VAC | 5 | | | ms | |
| PROTECTION | | | | | | |
| Over Voltage Protection | | | Nil | | % | |
| Over Current Protection | | Nil. Output protected to short circuit conditions | | | | % |
| GENERAL | | | | | | |
| Efficiency | I _o = Full Load, V _{in} = 230VAC | 50 | 75 | 85 | % | |
| Dielectric Withstanding Voltage For Primary to Secondary | Primary to Secondary | 4242 | | | VDC | |
| Dielectric Withstanding Voltage Primary to Ground (For A & C Types Only) | Primary to Ground | 2121 | | | VDC | |
| Isolation Resistance | Test Voltage = 500VDC | 50 | | | MΩ | |
| ENVIRONMENTAL | | | | | | |
| Operating Temperature | Derate linearly from 100% Load at 40°C to 50% load at 70°C | 0 | | 70 | °C | |
| Storage Temperature | | -40 | | 85 | °C | |
| Relative Humidity | | 5 | | 95 | % | |
| Temperature Coefficient | All Outputs | -0.04 | | +0.04 | %/°C | |
| MTBF | | 100,000 | | | hours | |
| PHYSICAL | | | | | | |
| Weight | | Approximately 165 grams | | | | |
| Dimensions | | 3.58(L) x 1.50(W) x 1.42(H) | | | inches | |
| Input Inlet | | IEC-320-C14, IEC-320-C8, IEC-320-C6 | | | | |
| Warranty | | 2 | | | years | |
| SAFETY | | | | | | |
| CISPR (EMI Requirements for CISPR-22) | V _{in} = 220VAC | B | | | Class | |
| FCC (EMI Requirements for FCC Part-15) | V _{in} = 110VAC | B | | | Class | |

*Note: The Ripple & Noise for output voltages under 3.3VDC is 2% max.

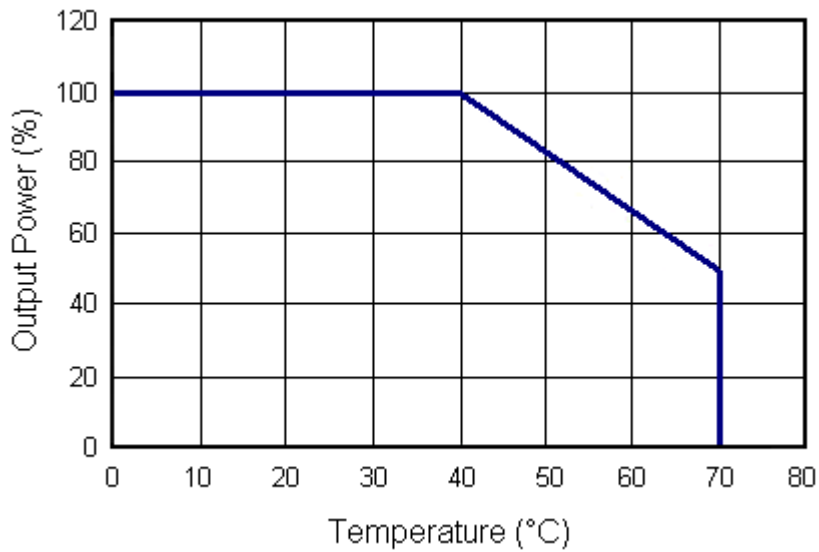
OUTPUT VOLTAGE/ CURRENT RATING CHART

| Model Number | Preset Voltage | Output Voltage Range | Output Current | Total Regulation | Maximum Output Power | AC Inlet Connector |
|---------------|----------------|----------------------|----------------|------------------|----------------------|--------------------|
| *DTSPU15A-101 | 5 VDC | 3 ~ 5 VDC | 2.50A max | 7% | 12W | IEC-320-C14 |
| *DTSPU15A-102 | 6 VDC | 5 ~ 6 VDC | 2.50 ~ 2.00A | 5% | 12W | |
| *DTSPU15A-103 | 8 VDC | 6 ~ 8 VDC | 2.00 ~ 1.50A | 5% | 12W | |
| *DTSPU15A-104 | 11 VDC | 8 ~ 11 VDC | 1.87 ~ 1.36A | 5% | 15W | |
| *DTSPU15A-105 | 13 VDC | 11 ~ 13 VDC | 1.36 ~ 1.15A | 5% | 15W | |
| *DTSPU15A-106 | 16 VDC | 13 ~ 16 VDC | 1.15 ~ 0.94A | 5% | 15W | |
| *DTSPU15A-107 | 21 VDC | 16 ~ 21 VDC | 0.94 ~ 0.72A | 5% | 15W | |
| *DTSPU15A-108 | 27 VDC | 21 ~ 27 VDC | 0.72 ~ 0.55A | 5% | 15W | |
| *DTSPU15A-109 | 33 VDC | 27 ~ 33 VDC | 0.55 ~ 0.45A | 5% | 15W | |
| DTSPU15A-110 | 40 VDC | 33 ~ 40 VDC | 0.45 ~ 0.37A | 3% | 15W | |
| DTSPU15A-111 | 48 VDC | 40 ~ 48 VDC | 0.37 ~ 0.31A | 3% | 15W | |
| *DTSPU15B-101 | 5 VDC | 3 ~ 5 VDC | 2.50A max | 7% | 12W | IEC-320-C8 |
| *DTSPU15B-102 | 6 VDC | 5 ~ 6 VDC | 2.50 ~ 2.00A | 5% | 12W | |
| *DTSPU15B-103 | 8 VDC | 6 ~ 8 VDC | 2.00 ~ 1.50A | 5% | 12W | |
| DTSPU15B-104 | 11 VDC | 8 ~ 11 VDC | 1.87 ~ 1.36A | 5% | 15W | |
| DTSPU15B-105 | 13 VDC | 11 ~ 13 VDC | 1.36 ~ 1.15A | 5% | 15W | |
| DTSPU15B-106 | 16 VDC | 13 ~ 16 VDC | 1.15 ~ 0.94A | 5% | 15W | |
| DTSPU15B-107 | 21 VDC | 16 ~ 21 VDC | 0.94 ~ 0.72A | 5% | 15W | |
| DTSPU15B-108 | 27 VDC | 21 ~ 27 VDC | 0.72 ~ 0.55A | 5% | 15W | |
| DTSPU15B-109 | 33 VDC | 27 ~ 33 VDC | 0.55 ~ 0.45A | 5% | 15W | |
| DTSPU15B-110 | 40 VDC | 33 ~ 40 VDC | 0.45 ~ 0.37A | 3% | 15W | |
| DTSPU15B-111 | 48 VDC | 40 ~ 48 VDC | 0.37 ~ 0.31A | 3% | 15W | |
| *DTSPU15C-101 | 5 VDC | 3 ~ 5 VDC | 2.50A max | 7% | 12W | IEC-320-C6 |
| *DTSPU15C-102 | 6 VDC | 5 ~ 6 VDC | 2.50 ~ 2.00A | 5% | 12W | |
| *DTSPU15C-103 | 8 VDC | 6 ~ 8 VDC | 2.00 ~ 1.50A | 5% | 12W | |
| *DTSPU15C-104 | 11 VDC | 8 ~ 11 VDC | 1.87 ~ 1.36A | 5% | 15W | |
| *DTSPU15C-105 | 13 VDC | 11 ~ 13 VDC | 1.36 ~ 1.15A | 5% | 15W | |
| *DTSPU15C-106 | 16 VDC | 13 ~ 16 VDC | 1.15 ~ 0.94A | 5% | 15W | |
| *DTSPU15C-107 | 21 VDC | 16 ~ 21 VDC | 0.94 ~ 0.72A | 5% | 15W | |
| *DTSPU15C-108 | 27 VDC | 21 ~ 27 VDC | 0.72 ~ 0.55A | 5% | 15W | |
| *DTSPU15C-109 | 33 VDC | 27 ~ 33 VDC | 0.55 ~ 0.45A | 5% | 15W | |
| DTSPU15C-110 | 40 VDC | 33 ~ 40 VDC | 0.45 ~ 0.37A | 3% | 15W | |
| DTSPU15C-111 | 48 VDC | 40 ~ 48 VDC | 0.37 ~ 0.31A | 3% | 15W | |

NOTES

1. The DTSPU15 Series is designated as DTSPU15x-y where x represents the type of AC input inlet connector, which can either be A (IEC-320-C14), B (IEC-320-C8), or C (IEC-320-C6); y can be 101, 102, 103, 104, 105, 106, 107, 108, 109, 110 or 111.
2. The output voltage is specified as a range (Ex: 40 ~ 50VDC); the preset voltage will be set as standard models if nothing different is requested. Please contact factory for ordering details.
3. The “*” symbol means PSE approval.
4. A & C Types Only: Models with output voltages under 30VDC have been approved by TUV/PSE.
5. Optional output connectors are available (see “DC Output Plug Selector List” link located at the bottom of the “Desktop” category page). Please call factory for ordering details.

DERATING CURVE



MECHANICAL DRAWING

