

## Key Features

- Encapsulated, compact case
- Industry standard pin out
- Universal input
- HI-POT tested
- Inrush current limiting
- Over-load protection
- Over-temperature protection
- Built-in EMI filter
- Fixed switching frequency
- High efficiency
- 2 year warranty

## Model Configurations

| Output Power (Max.) | Input Voltage | Output Voltage | Output Current (Min.) | Output Current (Max.) | Efficiency (Typ.) | Line Reg. | Load Reg. | Model Number |
|---------------------|---------------|----------------|-----------------------|-----------------------|-------------------|-----------|-----------|--------------|
| 9.0W                | Universal     | 3.3V           | 0A                    | 3.0A                  | 75%               | ±1.0%     | ±1.0%     | FSK-S15-3R3U |
| 15.0W               | Universal     | 5V             | 0A                    | 3.0A                  | 75%               | ±1.0%     | ±1.0%     | FSK-S15-5U   |
| 15.6W               | Universal     | 12V            | 0A                    | 1.3A                  | 78%               | ±1.0%     | ±1.0%     | FSK-S15-12U  |
| 15.0W               | Universal     | 15V            | 0A                    | 1.0A                  | 78%               | ±1.0%     | ±1.0%     | FSK-S15-15U  |
| 15.6W               | Universal     | 24V            | 0A                    | 0.65A                 | 78%               | ±1.0%     | ±1.0%     | FSK-S15-24U  |

## Input

| Parameter                   | Conditions/Description | Min | Nom | Max  | Units |
|-----------------------------|------------------------|-----|-----|------|-------|
| Input voltage               | AC input               | 85  |     | 264  | VAC   |
|                             | DC input               | 110 |     | 340  | VDC   |
| Line frequency              |                        | 47  |     | 400  | Hz    |
| Input current               | @110VAC                |     |     | 0.31 | Amps  |
|                             | @220VAC                |     |     | 0.16 | Amps  |
| Inrush current (cold start) | @110VAC                |     |     | 30   | Amps  |
|                             | @220VAC                |     |     | 60   | Amps  |
| Leakage current             | @110VAC                |     |     | 0.5  | mA    |
|                             | @220VAC                |     |     | 0.75 | mA    |

## Output

| Parameter   | Conditions/Description      | Min   | Nom | Max      | Units |
|---|-----------------------------|-------|-----|----------|-------|
| Set point accuracy                                      |                             | -2%   |     | +2%      |       |
| Line regulation <sup>2</sup><br>(Low line to high line) | Single & dual output models | -1.0% |     | +1.0%    |       |
| Load regulation, static <sup>2</sup>                    | Main output                 | -1.0% |     | +1.0%    |       |
|   | Aux. outputs                | -2.0% |     | +2.0%    |       |
| Load regulation, dynamic <sup>2</sup>                   | Main output                 | -3.0% |     | +3.0%    |       |
| Temperature drift                                       |                             | -1.0% |     | +1.0%    |       |
| Hold-up time  |                             | 10    |     |          | ms    |
| Minimum load  |                             | 0.0   |     |          | Amps  |
| Ripple & noise  | 20 MHz bandwidth            |       |     | 1.0%Vout | mVpp  |

Note 2. To maintain specified regulation, it is required to have a minimum 10% load on the main output, and a 20% load on each auxiliary output. Under no load conditions, operations will not damage the devices, but all specified regulation may not be met.

## Protection

| Parameter        | Conditions/Description                | Min  | Nom | Max  | Units |
|------------------|---------------------------------------|------|-----|------|-------|
| Over-current     | Continuous auto recovery <sup>3</sup> | 105% |     | 135% |       |
| Over-voltage     | Internal clamping                     | 115% |     | 140% |       |
| Over-temperature | Thermal shutdown                      |      |     | 145  | °C    |

Note 3. Continuous operation in a protected state may compromise long-term reliability.

## General

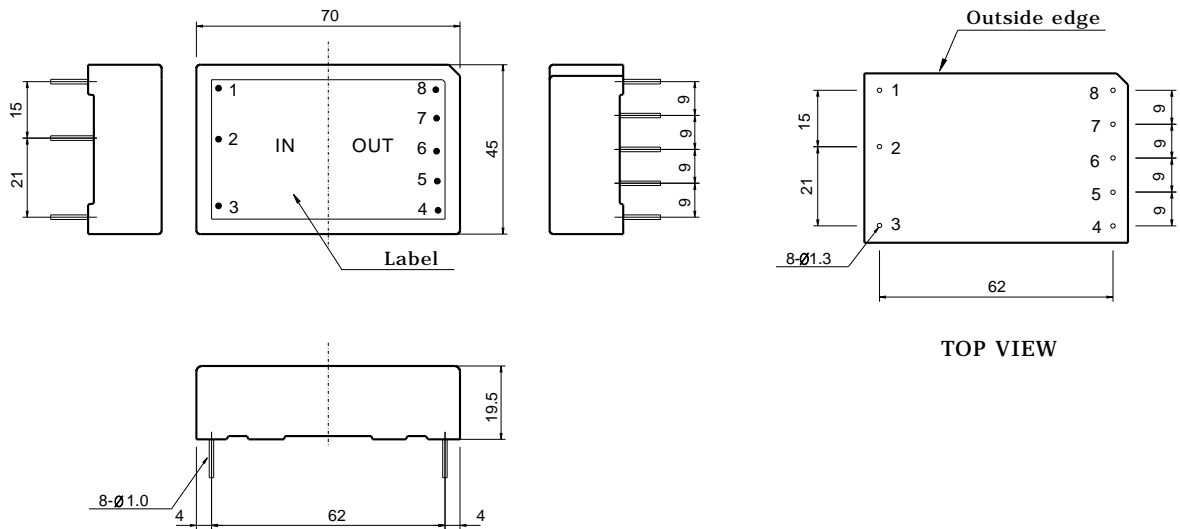
| Parameter                      | Conditions/Description   | Min  | Nom    | Max | Units |
|--------------------------------|--|------|--------|-----|-------|
| Efficiency                     | Typical at full load   |      | 75%    |     |       |
| Isolated Dielectric withstand  | Input/Output   | 3K   |        |     | VAC   |
|                                | Input/FG   | 2K   |        |     | VAC   |
|                                | Output/FG  | 0.5K |        |     | VAC   |
| Isolated Insulation resistance | Input/Output @ 500VDC  | 100M |        |     | Ohms  |
|                                | Input/FG   | 100M |        |     | Ohms  |
|                                | Output/FG  | 70M  |        |     | Ohms  |
| Agency standards               | Designed to meet UL1950, EN60950, CISPR22, CE, CB, FCC class B |      |        |     |       |
| Case material                  |  |      | Zn     |     |       |
| Material flammability          |  |      | 94 V-0 |     |       |
| MTBF                           | MIL-HDBK-217F  |      | 250k   |     | hours |
| Operating temperature          |  | -10  |        | +60 | °C    |
| Storage temperature            |  | -20  |        | +70 | °C    |
| Vibration                      | 10G, 10-55Hz, for 3 minutes                                    | 10   |        | 55  | Hz    |
| Impact                         | 50G on X, Y & Z-axis, for 11ms,                                |      |        |     |       |
| Humidity                       | Operating (non-condensing)                                     | 20%  |        | 90% | RH    |
| Weight                         |  |      |        | 100 | grams |

### Pin assignments

| Single Output |        |
|---------------|--------|
| 1.            | FG     |
| 2.            | AC(N)  |
| 3.            | AC(L)  |
|               |        |
| 4.            | No pin |
| 5.            | +Vout  |
| 6.            | No pin |
| 7.            | -Vout  |
| 8.            | No pin |

### Dimensions

All dimensions are in mm.



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