



1 WATT SINGLE & **DUAL OUTPUT**

Unregulated SIP Package





FEATURES

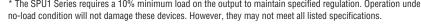
- 1 Watt Unregulated **Output Power**
- Miniature Single **Inline Package (SIP)**
- 3000Vdc Input/Output **Isolation**
- Single and Dual **Output**
- High Efficiency (Up to 80%)

Specifications

All specifications are typical at nominal input, full load and 25°C, unless otherwise noted.

| INPUT Input Voltage Range | |
|--|--------------------------|
| 5V nominal input | 45-55 Vdc |
| 12V nominal input | |
| 15V nominal input | |
| 24V nominal input | |
| Input Filter | |
| OUTPUT | |
| Output Power | 1 Watt max. |
| Voltage Accuracy (Full Load and Nominal Vin) | ±5% |
| Minimum Load * | 10% fo FL |
| Line Regulation LL to HL at Full Load | |
| Load Regulation (20% to 100% FL)(5V output±10%) | Others±8% |
| Ripple and Noise (20 MHz Bandwidth) | |
| Temperature Coefficient | ±0.1%/°C, max. |
| Short Circuit Protection | Short term |
| GENERAL | |
| Efficiency | See Table |
| Isolation Voltage (Input to Output) Standard1000 Vdc min. Suffix-I | Hl3000 Vdc min. |
| Isolation Resistance | 109 Ohms, min. |
| Isolation Capacitance | |
| Switching Frequency | 60KHz, min. |
| Safety StandardIEC60950, UL60950, EN609 | , |
| Case MaterialNon-Conduc | |
| Base Material | |
| Potting Material | |
| Dimensions | , |
| Weight | |
| MTBF | 1.4/1 x 10' Hours |
| ENVIRONMENTAL | |
| Operating Temperature Range25°C to +85° | |
| Storage Temperature Range | |
| Thermal Shock | |
| Vibration | |
| Relative Humidity | |
| * The SPU1 Series requires a 10% minimum load on the output to maintain specified regu | ulation. Operation under |

SPU1 Series





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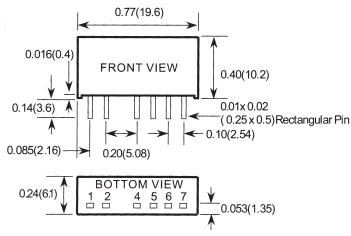
Selection Guide (Continued)

| | Input Voltage Nominal (Range) (Vdc) | Output Voltage (Vdc) | Output Current (mA) | Efficiency % | Model Number | Case |
|--------|---|----------------------------|---------------------------|-----------------|--------------|------|
| | 4.5 - 5.5 | 5 | 200 | 71 | SPU1-5S5 | SIP |
| | 4.5 - 5.5 | 12 | 83 | 78 | SPU1-5S12 | SIP |
| ⊢ | 4.5 - 5.5 | 15 | 67 | 78 | SPU1-5S15 | SIP |
| ООТРОТ | 10.8 - 13.2 | 5 | 200 | 73 | SPU1-12S5 | SIP |
| E | 10.8 - 13.2 | 12 | 83 | 79 | SPU1-12S12 | SIP |
| 5 | 10.8 - 13.2 | 15 | 67 | 79 | SPU1-12S15 | SIP |
| _ | 13.5 - 16.5 | 5 | 200 | 73 | SPU1-15S5 | SIP |
| 믕 | 13.5 - 16.5 | 12 | 83 | 79 | SPU1-15S12 | SIP |
| SINGLE | 13.5 - 16.5 | 15 | 67 | 79 | SPU1-15S15 | SIP |
| S | 21.6 - 26.4 | 5 | 200 | 71 | SPU1-24S5 | SIP |
| | 21.6 - 26.4 | 12 | 83 | 76 | SPU1-24S12 | SIP |
| | 21.6 - 26.4 | 15 | 67 | 78 | SPU1-24S15 | SIP |
| | 4.5 - 5.5 | ±5 | ±100 | 72 | SPU1-5-5 | SIP |
| | 4.5 - 5.5 | ±12 | ±42 | 78 | SPU1-5-12 | SIP |
| _ | 4.5 - 5.5 | ±15 | ±33 | 78 | SPU1-5-15 | SIP |
| 5 | 10.8 - 13.2 | ±5 | ±100 | 74 | SPU1-12-5 | SIP |
| ООТРОТ | 10.8 - 13.2 | ±12 | ±42 | 80 | SPU1-12-12 | SIP |
| Þ | 10.8 - 13.2 | ±15 | ±33 | 80 | SPU1-12-15 | SIP |
| | 13.5 - 16.5 | ±5 | ±100 | 74 | SPU1-15-5 | SIP |
| A | 13.5 - 16.5 | ±12 | ±42 | 80 | SPU1-15-12 | SIP |
| DUAL | 13.5 - 16.5 | ±15 | ±33 | 80 | SPU1-15-15 | SIP |
| | 21.6 - 26.4 | ±5 | ±100 | 72 | SPU1-24-5 | SIP |
| | 21.6 - 26.4 | ±12 | ±42 | 78 | SPU1-24-12 | SIP |
| | 21.6 - 26.4 | ±15 | ±33 | 79 | SPU1-24-15 | SIP |

Mechanical Specifications

| STANDARD | | | | |
|----------|---------|---------|--|--|
| PIN | SINGLE | DUAL | | |
| 1 | +INPUT | +INPUT | | |
| 2 | -INPUT | -INPUT | | |
| 4 | -OUTPUT | -OUTPUT | | |
| 5 | NC | COMMON | | |
| 6 | +OUTPUT | +OUTPUT | | |

| Suffix HI Models (3000Vdc isolation) | | | | |
|--------------------------------------|---------|---------|--|--|
| PIN | SINGLE | DUAL | | |
| 1 | +INPUT | +INPUT | | |
| 2 | -INPUT | -INPUT | | |
| 5 | -OUTPUT | -OUTPUT | | |
| 6 | NC | COMMON | | |
| 7 | +OUTPUT | +OUTPUT | | |



- 1. All Dimensions are in inches (mm)
- 2. Pin pitch tolerance $\pm 0.014(0.35)$



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