



80W AC-DC Single Output Desktop

U65S series



■ Features :

- 3 pole AC inlet IEC320-C14
- Class I power (with earth pin)
- Full output 12~48V safety approval
- Protections: Short circuit / Overload / Over voltage
- Fully enclosed plastic case
- Fix switching frequency and regulation
- Topology: PWM 3882 circuit
- With power ON/OFF switch(option)
- LED indicator for power on
- Approvals: UL / CUL / TUV / CB / CE
- 2 years warranty



SPECIFICATION

| ORDER NO. | U65S105-P2J | U65S106-P2J | U65S107-P2J | U65S108-P2J | U65S109-P2J | U65S111-P2J | |
|---------------------------|---|---|-------------|-------------|-------------|-------------|-----------|
| OUTPUT | SAFETY MODEL NO. | SPU65-105 | SPU65-106 | SPU65-107 | SPU65-108 | SPU65-109 | SPU65-111 |
| | DC VOLTAGE Note.2 | 12V | 15V | 18V | 24V | 29V | 48V |
| | RATED CURRENT | 6.66A | 5.33A | 4.44A | 3.33A | 2.75A | 1.66A |
| | CURRENT RANGE | 0~ 6.66A | 0 ~ 5.33A | 0 ~ 4.44A | 0 ~3.33A | 0 ~ 2.75A | 0 ~ 1.66A |
| | RATED POWER | 80W | 80W | 80W | 80W | 80W | 80W |
| | RIPPLE & NOISE (max.) Note.3 | 100mVp-p | 100mVp-p | 120mVp-p | 150mVp-p | 180mVp-p | 240mVp-p |
| | VOLTAGE ADJ. RANGE | Fixed | | | | | |
| | VOLTAGE TOLERANCE Note.4 | ±4.0% | ±3.0% | ±3.0% | ±2.0% | ±2.0% | ±2.0% |
| | LINE REGULATION Note.5 | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% |
| | LOAD REGULATION Note.6 | ±3.5% | ±2.5% | ±2.0% | ±1.5% | ±1.5% | ±1.0% |
| SETUP, RISE, HOLD UP TIME | 800ms, 50ms, 16ms at full load | | | | | | |
| INPUT | VOLTAGE RANGE | 95 ~ 264VAC 140 ~ 370VDC | | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | |
| | EFFICIENCY (Typ.) | 75% | 76% | 77% | 78% | 80% | 81% |
| | AC CURRENT | 1.9A / 100VAC | | | | | |
| | INRUSH CURRENT (max.) | 40A / 230VAC | | | | | |
| | LEAKAGE CURRENT (max.) | 0.75mA / 240VAC | | | | | |
| PROTECTION | OVERLOAD | 110 ~ 160% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed | | | | | |
| | OVER VOLTAGE | 110 ~ 140% rated output voltage Protection type : Shut down o/p voltage, re-power on to recover | | | | | |
| ENVIRONMENT | WORKING TEMP. | 0 ~ +40°C (Refer to output load derating curve) | | | | | |
| | WORKING HUMIDITY | 20% ~ 90% RH non-condensing | | | | | |
| | STORAGE TEMP., HUMIDITY | -20 ~ +85°C, 10 ~ 95% RH | | | | | |
| | TEMP. COEFFICIENT | ±0.03% / °C (0 ~ 50°C) | | | | | |
| | VIBRATION | 10 ~ 500Hz, 2G 3AXES 10min./1cycle, period for 60min. each along X, Y, Z axes | | | | | |
| SAFETY & EMC (Note. 7) | SAFETY STANDARDS | UL1950, EN60950-1 approved | | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P:3KVAC, I/P-FG:1.5KVAC | | | | | |
| | ISOLATION RESISTANCE | I/P-O/P,I/P-FG:100M Ohms / 500VDC / 25°C / 70% RH | | | | | |
| | EMI CONDUCTION & RADIATION | Compliance to EN55022(CISPR22) class B | | | | | |
| | HARMONIC CURRENT | Compliance to EN61000-3-2,3 | | | | | |
| OTHERS | EMT IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,8,11, light industry level, criteria A | | | | | |
| | MTBF | 100K hrs min. MIL-HDBK-217F (25°C) | | | | | |
| | DIMENSION | 168*78.5*44.5mm (L*W*H) | | | | | |
| CONNECTOR | PACKING | 0.75kg; 25pcs / 19kg / CARTON | | | | | |
| | PLUG | Standard type P2J: 2.1φ * 5.5φ * 11mm, center positive for stock ; Other type available by customer requested | | | | | |
| | CABLE | SPT-2 16AWG 6FT for 12V; SPT-1 18AWG 6FT for 15 ~ 48V; Other type available by customer requested | | | | | |
| NOTE | <p>1.All parameters are specified at 230VAC input, rated load, 25°C 70% RH Ambient.</p> <p>2.DC voltage: The output voltage set at point measure by plug terminal & 50% load.</p> <p>3.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor.</p> <p>4.Tolerance: includes set up tolerance, line regulation, load regulation.</p> <p>5.Line regulation is measured from low line to high line at rated load.</p> <p>6.Load regulation is measured from 0% to 100% rated load.</p> <p>7.The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.</p> | | | | | | |

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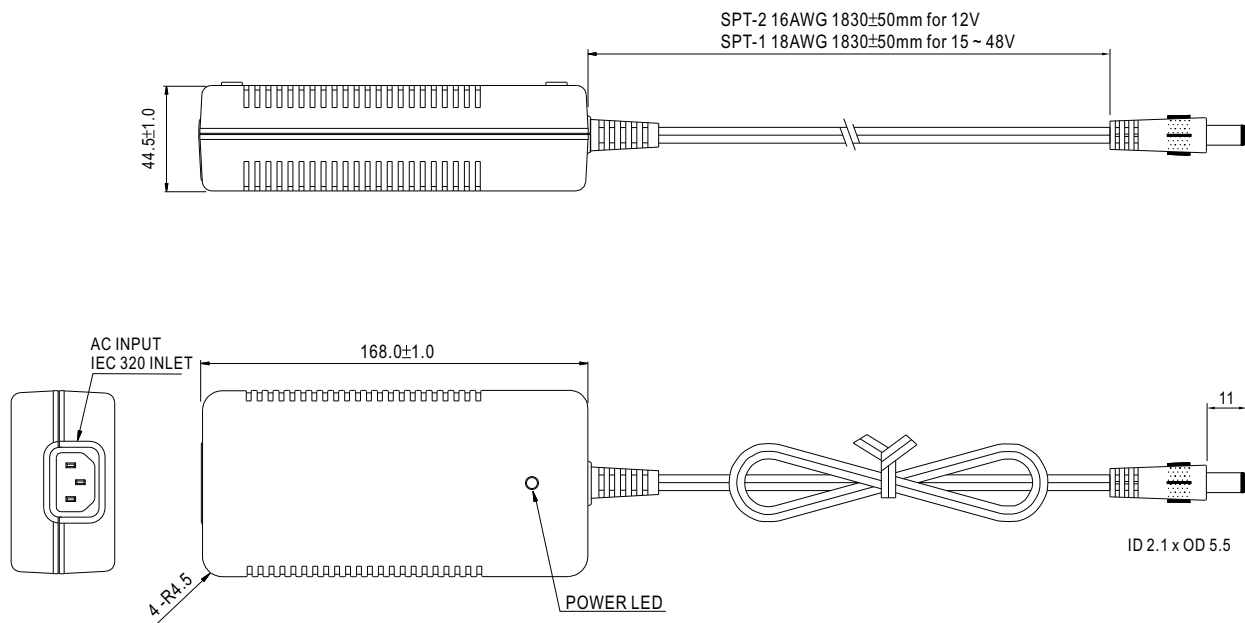


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■ Mechanical Specification

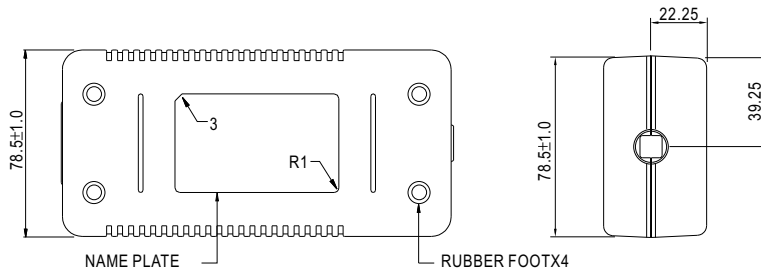
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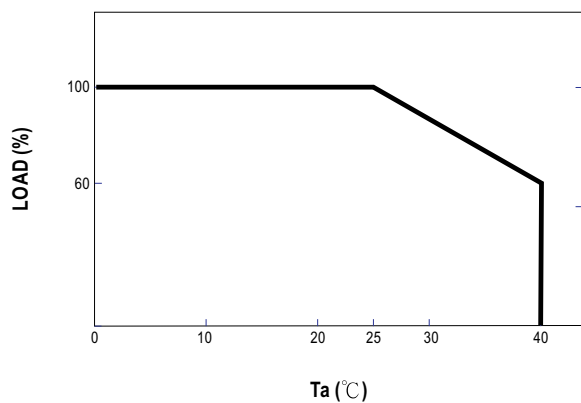
■ Plug Assignment

Standard plug: P2J (option)

| P2J | |
|--------|--------|
| P/N | OUTPUT |
| CENTER | + |



■ Derating Curve



■ Static Characteristics

