



12~27W AC-DC Single Output Desktop

P30A series



■ Features :

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

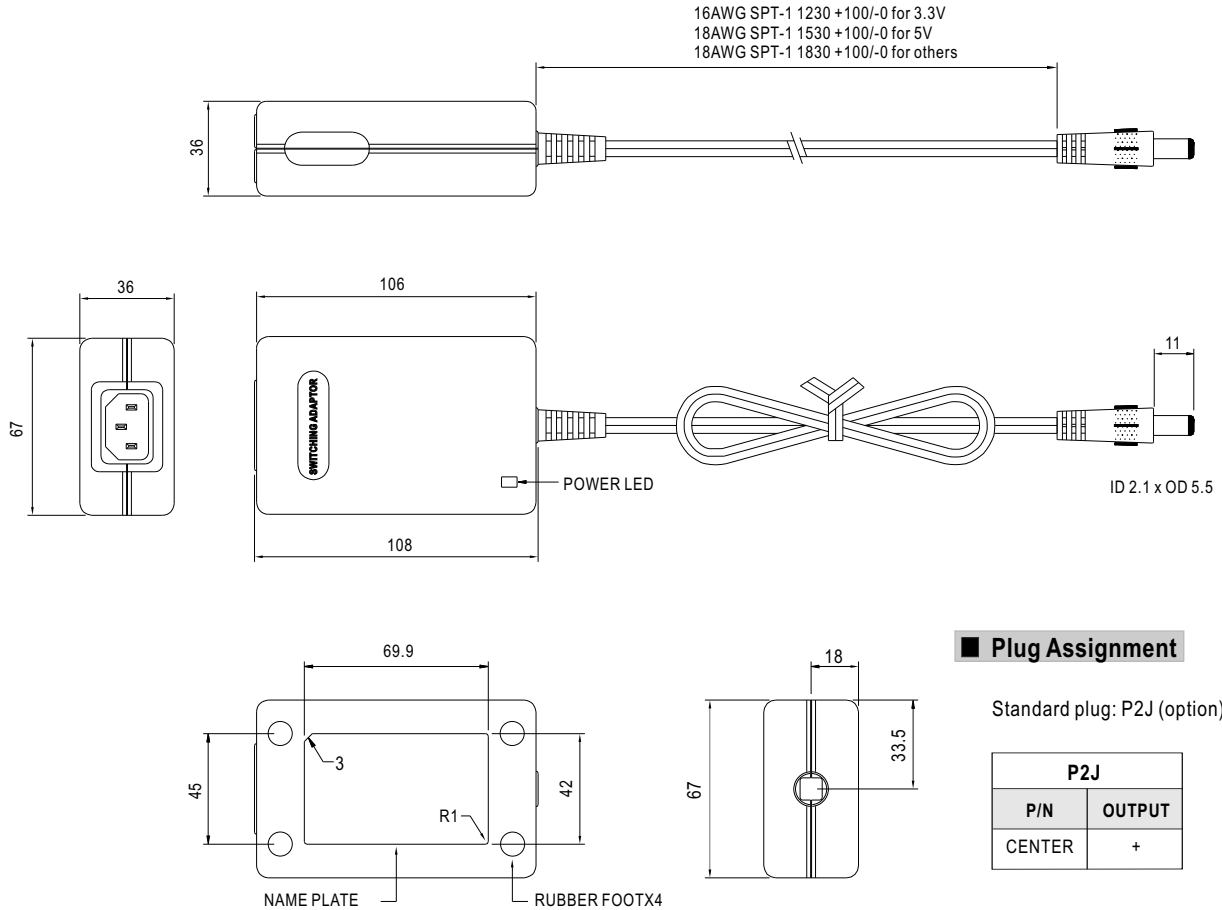


SPECIFICATION

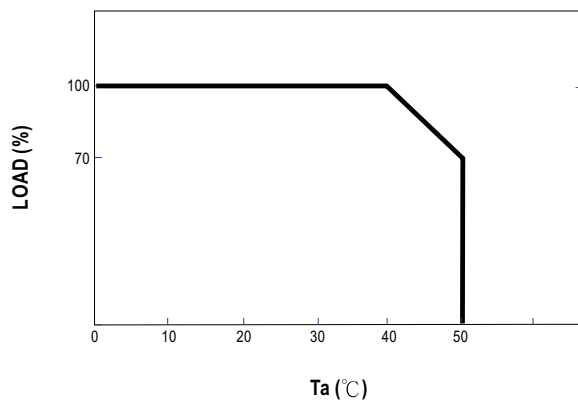
| ORDER NO. | | P30A-0P2J | P30A-1P2J | P30A-1-1P2J | P30A-2P2J | P30A-3P2J | P30A-4P2J | P30A-5P2J | P30A-6P2J | P30A-8P2J |
|--|---|--|-----------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| OUTPUT | SAFETY MODEL NO. | PSU30A-0 | PSU30A-1 | PSU30A-1-1 | PSU30A-2 | PSU30A-3 | PSU30A-4 | PSU30A-5 | PSU30A-6 | PSU30A-8 |
| | DC VOLTAGE <small>Note.2</small> | 3.3V | 5V | 7.5V | 9V | 12V | 15V | 18V | 24V | 48V |
| | RATED CURRENT | 3.63A | 4A | 3.06A | 2.89A | 2.25A | 1.80A | 1.50A | 1.12A | 0.56A |
| | CURRENT RANGE | 0 ~ 3.63A | 0 ~ 4A | 0 ~ 3.06A | 0 ~ 2.89A | 0 ~ 2.25A | 0 ~ 1.80A | 0 ~ 1.50A | 0 ~ 1.12A | 0 ~ 0.56A |
| | RATED POWER | 12W | 20W | 23W | 26W | 27W | 27W | 27W | 27W | 27W |
| | RIPPLE & NOISE (max.) <small>Note.3</small> | 50mVp-p | 50mVp-p | 80mVp-p | 80mVp-p | 80mVp-p | 100mVp-p | 100mVp-p | 150mVp-p | 150mVp-p |
| | VOLTAGE ADJ. RANGE | 3 ~ 5V | 5 ~ 6V | 6 ~ 8V | 8 ~ 11V | 11 ~ 13V | 13 ~ 16V | 16 ~ 21V | 21 ~ 27V | 33 ~ 48V |
| | | Fixed output by internal VR | | | | | | | | |
| | VOLTAGE TOLERANCE <small>Note.4</small> | ±7.0% | ±5.0% | ±4.0% | ±3.0% | ±3.0% | ±3.0% | ±2.0% | ±2.0% | ±2.0% |
| | LINE REGULATION <small>Note.5</small> | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% |
| INPUT | LOAD REGULATION <small>Note.6</small> | ±6.0% | ±4.0% | ±3.0% | ±2.0% | ±2.0% | ±2.0% | ±1.0% | ±1.0% | ±1.0% |
| | SETUP, RISE, HOLD UP TIME | 200ms, 50ms, 16ms at full load | | | | | | | | |
| | VOLTAGE RANGE | 90 ~ 264VAC 135 ~ 370VDC | | | | | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | | | | |
| | EFFICIENCY (Typ.) | 62% | 68% | 72% | 74% | 75% | 78% | 78% | 80% | 82% |
| | AC CURRENT | 0.8A / 100VAC | | | | | | | | |
| PROTECTION | INRUSH CURRENT (max.) | 60A / 230VAC | | | | | | | | |
| | LEAKAGE CURRENT (max.) | 0.75mA / 240VAC | | | | | | | | |
| | OVERLOAD | 150 ~ 450% 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 | OVER TEMPERATURE | IC1Tj135°C Protection type : Shut down o/p voltage, recovers automatically after temperature goes down | | | | | | | | |
| | WORKING TEMP. | 0 ~ +50°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 10min./1cycle, period for 60min. each along X, Y, Z axes | | | | | | | | |
| SAFETY & EMC <small>(Note. 7)</small> | SAFETY STANDARDS | UL1950, CSA22.2, 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 | | | | | | | | |
| | EMS IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,11, ENV50204, light industry level, criteria A | | | | | | | | |
| OTHERS | MTBF | 500khrs min. MIL-HDBK-217F (25°C) | | | | | | | | |
| | DIMENSION | 108*67*36mm (L*W*H) | | | | | | | | |
| | PACKING | 0.3kg ; 54pcs/ 20kg / CARTON | | | | | | | | |
| CONNECTOR | PLUG | Standard type P2J: 2.1φ * 5.5φ * 11mm, center positive for stock ; Other type available by customer requested | | | | | | | | |
| | CABLE | Standard type see page2 ; Other type available by customer requested | | | | | | | | |
| NOTE | | 1.All parameters are specified at 230VAC input, rated load, 25°C 70% RH ambient. 2.DC voltage: The output voltage set at point measure by plug terminal & 50% load. 3.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor. 4.Tolerance: includes set up tolerance, line regulation, load regulation. 5.Line regulation is measured from low line to high line at rated load. 6.Load regulation is measured from 0% to 100% rated load. 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. | | | | | | | | |

Mechanical Specification

Unit:mm



Derating Curve



Static Characteristics

