



■ Features :

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

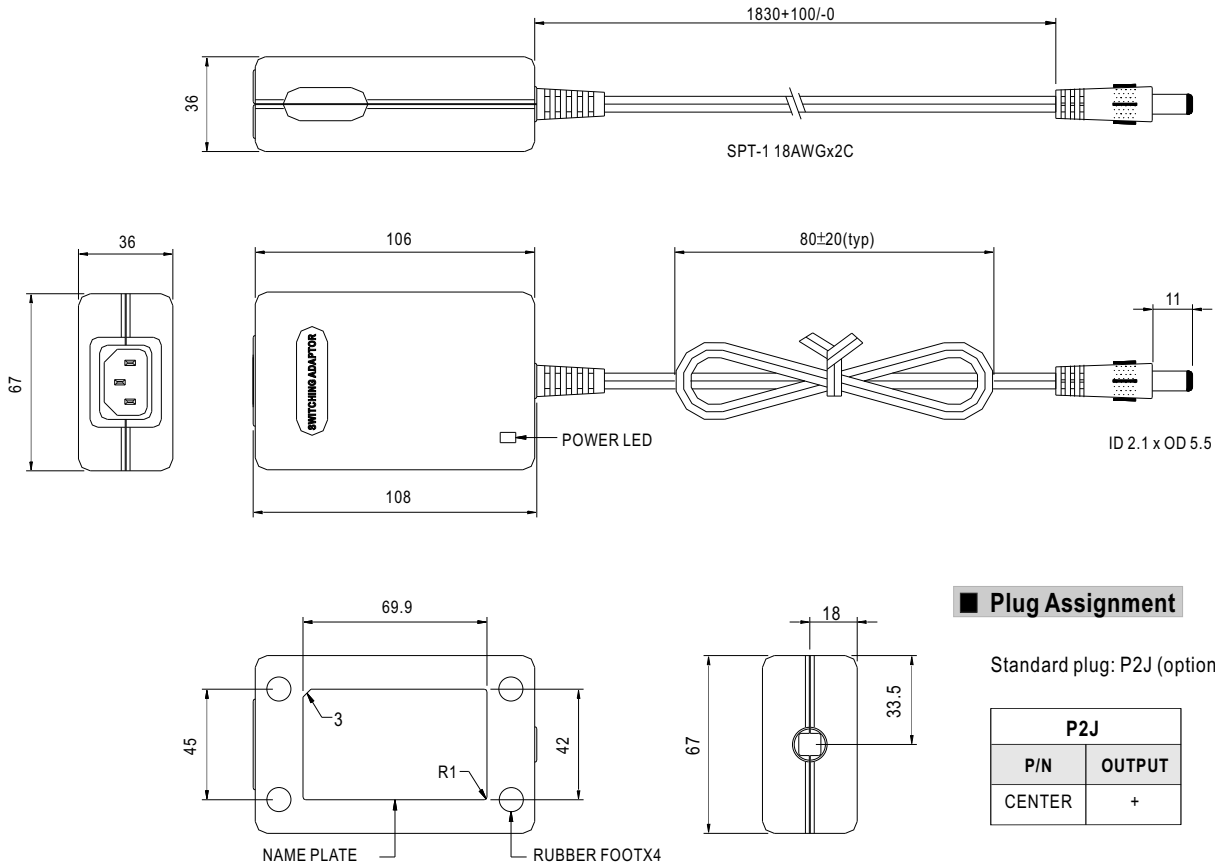


SPECIFICATION

| ORDER NO.                               | P30A-0P2J  | P30A-1P2J | P30A-1-1P2J | P30A-2P2J | P30A-3P2J | P30A-4P2J | P30A-5P2J | P30A-6P2J | P30A-8P2J |
|---|--|-----------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>SAFETY MODEL NO.</b>                 | PSU30A-0   | PSU30A-1  | PSU30A-1-1  | PSU30A-2  | PSU30A-3  | PSU30A-4  | PSU30A-5  | PSU30A-6  | PSU30A-8  |
| <b>DC VOLTAGE</b> Note.2                | 3.3V   | 5V        | 7.5V        | 9V        | 12V       | 15V       | 18V       | 24V       | 48V       |
| <b>RATED CURRENT</b>                    | 3.63A  | 4A        | 3.06A       | 2.89A     | 2.25A     | 1.80A     | 1.50A     | 1.12A     | 0.56A     |
| <b>CURRENT RANGE</b>                    | 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 |
| <b>RATED POWER</b>                      | 12W  | 20W       | 23W         | 26W       | 27W       | 27W       | 27W       | 27W       | 27W       |
| <b>RIPPLE &amp; NOISE (max.)</b> Note.3 | 50mVp-p  | 50mVp-p   | 80mVp-p     | 80mVp-p   | 80mVp-p   | 100mVp-p  | 100mVp-p  | 150mVp-p  | 150mVp-p  |
| <b>VOLTAGE ADJ. RANGE</b>               | 3~5V   | 5~6V      | 6~8V        | 8~11V     | 11~13V    | 13~16V    | 16~21V    | 21~27V    | 33~48V    |
|   | Fixed output by internal VR  |           |             |           |           |           |           |           |           |
| <b>VOLTAGE TOLERANCE</b> Note.4         | ±7.0%  | ±5.0%     | ±4.0%       | ±3.0%     | ±3.0%     | ±3.0%     | ±2.0%     | ±2.0%     | ±2.0%     |
| <b>LINE REGULATION</b> Note.5           | ±1.0%  | ±1.0%     | ±1.0%       | ±1.0%     | ±1.0%     | ±1.0%     | ±1.0%     | ±1.0%     | ±1.0%     |
| <b>LOAD REGULATION</b> Note.6           | ±6.0%  | ±4.0%     | ±3.0%       | ±2.0%     | ±2.0%     | ±2.0%     | ±1.0%     | ±1.0%     | ±1.0%     |
| <b>SETUP, RISE, HOLD TIME</b>           | 200ms, 50ms, 16ms at full load   |           |             |           |           |           |           |           |           |
| <b>VOLTAGE RANGE</b>                    | 90 ~ 264VAC 135~370VDC   |           |             |           |           |           |           |           |           |
| <b>FREQUENCY RANGE</b>                  | 47~63Hz  |           |             |           |           |           |           |           |           |
| <b>EFFICIENCY (Typ.)</b>                | 62%  | 68%       | 72%         | 74%       | 75%       | 78%       | 78%       | 80%       | 82%       |
| <b>AC CURRENT</b>                       | 0.8A / 100VAC  |           |             |           |           |           |           |           |           |
| <b>INRUSH CURRENT (max.)</b>            | 60A / 230VAC   |           |             |           |           |           |           |           |           |
| <b>LEAKAGE CURRENT (max.)</b>           | 0.75mA / 240VAC  |           |             |           |           |           |           |           |           |
| <b>OVER LOAD</b>                        | 200~450% rated output power<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed  |           |             |           |           |           |           |           |           |
| <b>OVER VOLTAGE</b>                     | 110~140% rated output voltage<br>Protection type : Shut down o/p voltage, re-power on to recover   |           |             |           |           |           |           |           |           |
| <b>OVER TEMPERATURE</b>                 | IC1Tj135℃<br>Protection type : Shut down o/p voltage, recovers automatically after temperature goes down   |           |             |           |           |           |           |           |           |
| <b>WORKING TEMP.</b>                    | 0~+50℃ (Refer to output load derating curve)   |           |             |           |           |           |           |           |           |
| <b>WORKING HUMIDITY</b>                 | 20%~90% RH non-condensing  |           |             |           |           |           |           |           |           |
| <b>STORAGE TEMP., HUMIDITY</b>          | -20~+85℃, 10~95% RH  |           |             |           |           |           |           |           |           |
| <b>TEMP. COEFFICIENT</b>                | ±0.03% / °C (0~50℃)  |           |             |           |           |           |           |           |           |
| <b>VIBRATION</b>                        | 10~500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes  |           |             |           |           |           |           |           |           |
| <b>SAFETY STANDARDS</b>                 | UL1950, CSA22.2, EN60950 Approved  |           |             |           |           |           |           |           |           |
| <b>WITHSTAND VOLTAGE</b>                | I/P-O/P:3KVAC, I/P-FG:1.5KVAC  |           |             |           |           |           |           |           |           |
| <b>ISOLATION RESISTANCE</b>             | I/P-O/P, I/P-FG:100M Ohms / 500VDC   |           |             |           |           |           |           |           |           |
| <b>EMI CONDUCTION &amp; RADIATION</b>   | Compliance to EN55022(CISPR22) class B   |           |             |           |           |           |           |           |           |
| <b>HARMONIC CURRENT</b>                 | Compliance to EN61000-3-2,3  |           |             |           |           |           |           |           |           |
| <b>EMS IMMUNITY</b>                     | Compliance to EN61000-4-2,3,4,5,6,11, ENV50204, Light industry level, criteria A   |           |             |           |           |           |           |           |           |
| <b>MTBF</b>                             | 500khrs min. MIL-HDBK-217F (25℃)   |           |             |           |           |           |           |           |           |
| <b>DIMENSION</b>                        | 108*67*36mm (L*W*H)  |           |             |           |           |           |           |           |           |
| <b>PACKING</b>                          | 0.3kg ; 54pcs/ 20kg / CARTON   |           |             |           |           |           |           |           |           |
| <b>PLUG</b>                             | Standard type P2J: 2.1φ * 5.5φ * 11mm, center positive for stock ; Other type available by customer requested  |           |             |           |           |           |           |           |           |
| <b>CABLE</b>                            | Standard type 18Awg*2c SPT-1 6ft for stock ; Other type available by customer requested  |           |             |           |           |           |           |           |           |
| <b>NOTE</b>                             | 1.All parameters are specified at 230VAC input, rated load, 25℃ 70% RH. Ambient.<br>2.DC voltage: The output voltage set at point measure by plug terminal & 50% load.<br>3.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor.<br>4.Tolerance: includes set up tolerance, line regulation, load regulation.<br>5.Line regulation is measured from low line to high line at rated load.<br>6.Load regulation is measured from 0% to 100% rated load.<br>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

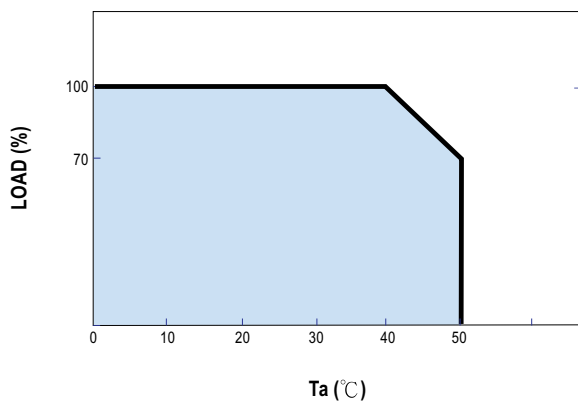


■ Plug Assignment

Standard plug: P2J (option)

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

■ Derating Curve



■ Static Characteristics

