



### ■ Features :

- 2 pole USA plug
- Class II power ( without earth pin)
- Universal AC input / Full range
- No load input power < 1.0W
- Protections: Short circuit/ Over load
- 100% full load burn-in test
- Approvals: UL/ CUL/ CB/ PSE/ BSMI /CE/ FCC
- 1 year warranty

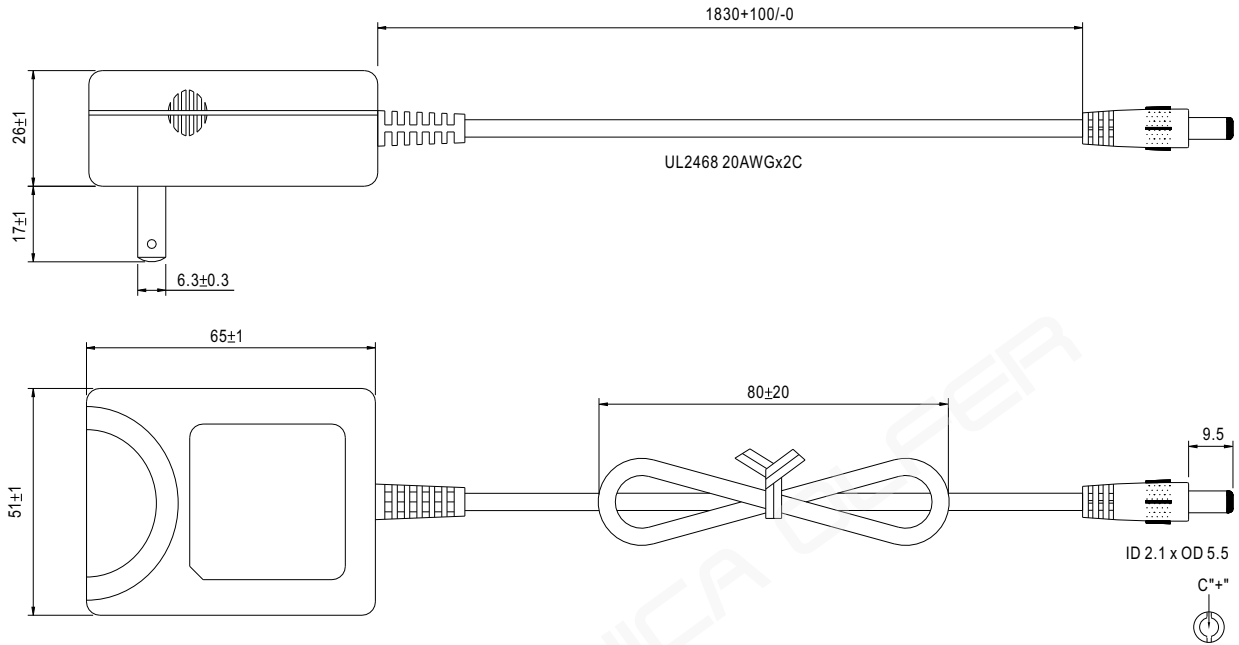


### SPECIFICATION

| ORDER NO.              | SW12U03-P1I   | SW12U05-P1I  | SW12U07-P1I | SW12U09-P1I    | SW12U12-P1I | SW12U15-P1I | SW12U24-P1I |           |
|------------------------|---|--|-------------|----------------|-------------|-------------|-------------|-----------|
| OUTPUT                 | SAFETY MODEL NO.  | SW12-033U  | SW12-050U   | SW12-075U      | SW12-090U   | SW12-120U   | SW12-150U   | SW12-240U |
|                        | DC VOLTAGE  | 3.3V   | 5V          | 7.5V           | 9V          | 12V         | 15V         | 24V       |
|                        | RATED CURRENT   | 2.0A   | 2.0A        | 1.5A           | 1.3A        | 1.0A        | 0.8A        | 0.5A      |
|                        | CURRENT RANGE   | 0 ~ 2.0A   | 0 ~ 2.0A    | 0 ~ 1.5A       | 0 ~ 1.3A    | 0 ~ 1.0A    | 0 ~ 0.8A    | 0 ~ 0.5A  |
|                        | RATED POWER   | 6.6W   | 10W         | 11.25W         | 11.7W       | 12W         | 12W         | 12W       |
|                        | RIPPLE & NOISE (max.) Note.2  | 50mVp-p  | 50mVp-p     | 70mVp-p        | 90mVp-p     | 120mVp-p    | 150mVp-p    | 200mVp-p  |
|                        | VOLTAGE ADJ. RANGE  | Fixed  |             |                |             |             |             |           |
|                        | VOLTAGE TOLERANCE Note.3  | ±5.0%  | ±5.0%       | ±4.0%          | ±4.0%       | ±3.0%       | ±3.0%       | ±3.0%     |
|                        | LINE REGULATION Note.4  | ±0.5%  | ±0.5%       | ±0.5%          | ±0.5%       | ±0.5%       | ±0.5%       | ±0.5%     |
|                        | LOAD REGULATION Note.5  | ±5.0%  | ±5.0%       | ±4.0%          | ±4.0%       | ±3.0%       | ±3.0%       | ±3.0%     |
| SETUP, RISE, HOLD TIME | 3000ms, 50ms, 8ms at full load  |  |             |                |             |             |             |           |
| INPUT                  | VOLTAGE RANGE   | 90 ~ 264VAC  |             |                |             |             |             |           |
|                        | FREQUENCY RANGE   | 47~ 63Hz   |             |                |             |             |             |           |
|                        | EFFICIENCY (Typ.)   | 55%  | 67%         | 72%            | 74%         | 77%         | 80%         | 81%       |
|                        | AC CURRENT  | 0.31A / 115VAC   |             | 0.16A / 230VAC |             |             |             |           |
|                        | INRUSH CURRENT (max.)   | 40A / 230VAC   |             |                |             |             |             |           |
| LEAKAGE CURRENT (max.) | 0.25mA / 240VAC   |  |             |                |             |             |             |           |
| PROTECTION             | OVER LOAD   | 110 ~ 200% rated output power<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed          |             |                |             |             |             |           |
|                        | WORKING TEMP.   | 0 ~ +40°C (Refer to output load derating curve)  |             |                |             |             |             |           |
| ENVIRONMENT            | WORKING HUMIDITY  | 20% ~ 90% RH non-condensing  |             |                |             |             |             |           |
|                        | STORAGE TEMP., HUMIDITY   | -20 ~ +85°C, 5 ~ 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 (Note. 6) | SAFETY STANDARDS  | UL1950 Approved  |             |                |             |             |             |           |
|                        | WITHSTAND VOLTAGE   | I/P-O/P:3KVAC  |             |                |             |             |             |           |
|                        | ISOLATION RESISTANCE  | I/P-O/P:100M Ohms / 500VDC   |             |                |             |             |             |           |
|                        | EMI CONDUCTION & RADIATION  | Compliance to FCC part15 class B, EN55022 class B  |             |                |             |             |             |           |
|                        | HARMONIC CURRENT  | Compliance to EN61000-3-2,3  |             |                |             |             |             |           |
| OTHERS                 | MTBF  | 50KHrs min. MIL-HDBK-217F (25°C)   |             |                |             |             |             |           |
|                        | DIMENSION   | 65*51*26mm (L*W*H)   |             |                |             |             |             |           |
|                        | PACKING   | 140g ; 70pcs / 10.9Kg / CARTON   |             |                |             |             |             |           |
| CONNECTOR              | PLUG  | Standard type P1I: 2.1φ * 5.5φ * 9.5mm turning fork type, center positive for stock ; Other type available by customer requested |             |                |             |             |             |           |
|                        | CABLE   | Standard type 20Awg UL1185 for stock ; Other type available by customer requested  |             |                |             |             |             |           |
| NOTE                   | <p>1. All parameters are specified at 115VAC input, rated load, 25°C 70% RH. Ambient.</p> <p>2. Ripple &amp; noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf &amp; 47uf capacitor.</p> <p>3. Tolerance: includes set up tolerance, line regulation, load regulation.</p> <p>4. Line regulation is measured from low line to high line at rated load.</p> <p>5. Load regulation is measured from 10% to 100% rated load.</p> <p>6. 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> |  |             |                |             |             |             |           |

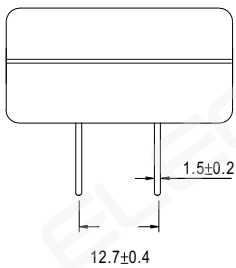
### Mechanical Specification

Unit:mm



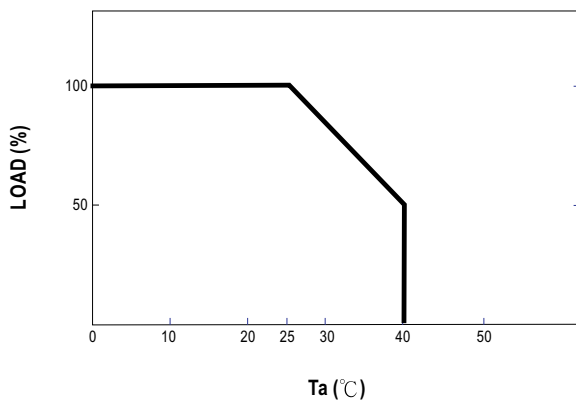
### Plug Assignment

Standard plug: P1I (option)



| P1J    |        |
|--------|--------|
| P/N    | OUTPUT |
| CENTER | +      |

### Derating Curve



### Static Characteristics

