



■ Features :

- Universal AC input / Full range
- 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
- RCC control circuit and regulated
- Fully enclosed plastic case
- LED for power on
- Approvals: UL/ CUL / TUV / CCC / CB / CE
- 1 year warranty

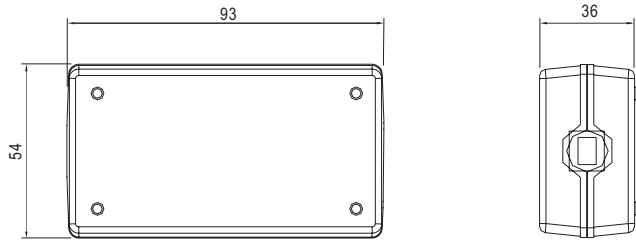
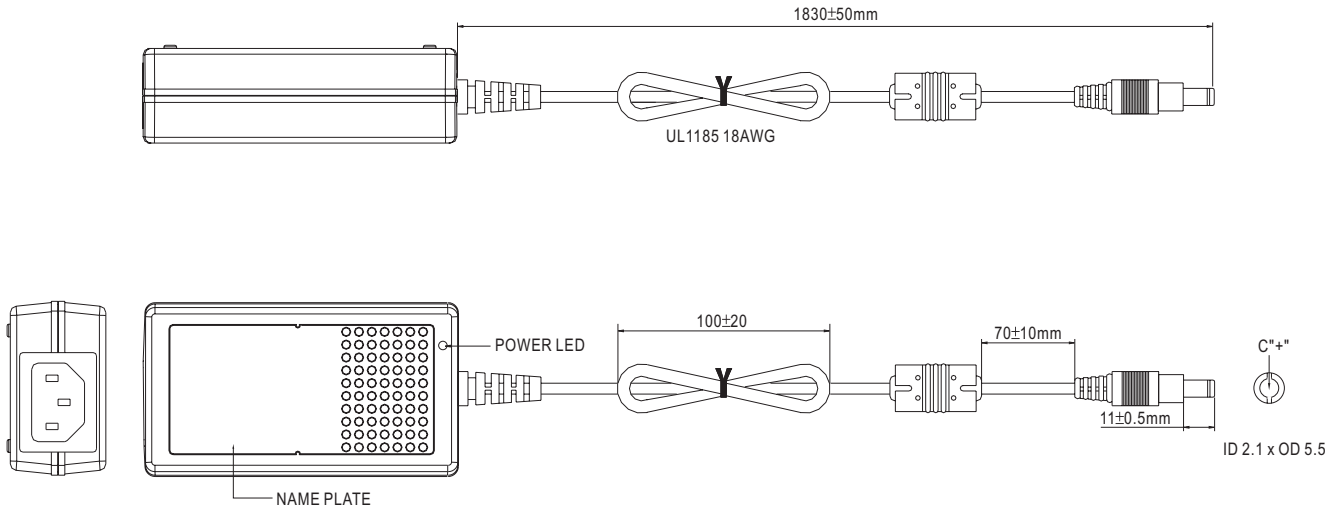


SPECIFICATION

ORDER NO.	ES18A03-P1J	ES18A05-P1J	ES18A07-P1J	ES18A09-P1J	ES18A12-P1J	ES18A15-P1J	ES18A18-P1J	ES18A24-P1J	ES18A28-P1J	ES18A48-P1J	
<b>OUTPUT</b>	<b>SAFETY MODEL NO.</b> ES18A03 ES18A05 ES18A07 ES18A09 ES18A12 ES18A15 ES18A18 ES18A24 ES18A28 ES18A48 <b>DC VOLTAGE</b> Note.2 3.3V 5V 7.5V 9V 12V 15V 18V 24V 28V 48V <b>RATED CURRENT</b> 2.72A 3.0A 2.0A 2.0A 1.50A 1.20A 1.0A 0.75A 0.64A 0.38A <b>CURRENT RANGE</b> 0.3 ~ 2.72A 0.3 ~ 3.0A 0.3 ~ 2.0A 0.2 ~ 2.0A 0.15 ~ 1.50A 0.1 ~ 1.20A 0.1 ~ 1.0A 0.1 ~ 0.75A 0.06 ~ 0.64A 0.05 ~ 0.38A <b>RATED POWER (max.)</b> 9W 15W 15W 18W 18W 18W 18W 18W 18W 18W <b>RIPPLE &amp; NOISE (max.)</b> Note.3 50mVp-p 50mVp-p 80mVp-p 80mVp-p 80mVp-p 100mVp-p 150mVp-p 180mVp-p 240mVp-p 240mVp-p <b>VOLTAGE ADJ. RANGE</b> Fixed <b>VOLTAGE TOLERANCE</b> Note.4 ±5.0% ±5.0% ±5.0% ±5.0% ±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% ±1.0% <b>LOAD REGULATION</b> Note.6 ±5.0% ±5.0% ±5.0% ±5.0% ±3.0% ±3.0% ±3.0% ±2.0% ±2.0% ±2.0% <b>SETUP, RISE, HOLD TIME</b> 300ms, 100ms, 16ms at full load										
<b>INPUT</b>	<b>VOLTAGE RANGE</b> 90 ~ 264VAC 135~370VDC <b>FREQUENCY RANGE</b> 47 ~ 63Hz <b>EFFICIENCY (Typ.)</b> 55% 70% 72% 74% 76% 77% 78% 80% 81% 82% <b>AC CURRENT</b> 0.5A / 100VAC <b>INRUSH CURRENT (max.)</b> 40A / 230VAC <b>LEAKAGE CURRENT(max.)</b> 0.75mA / 240VAC										
<b>PROTECTION</b>	<b>OVER LOAD</b> 110~150% rated output power 130~180% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed <b>OVER VOLTAGE</b> 105~135% rated output voltage Protection type : Clamp by zener diode, output short										
<b>ENVIRONMENT</b>	<b>WORKING TEMP.</b> 0~+50°C (Refer to output load derating curve) <b>WORKING HUMIDITY</b> 20%~90% RH non-condensing <b>STORAGE TEMP., HUMIDITY</b> -20~+85°C, 10~95% RH <b>TEMP. COEFFICIENT</b> ±0.03% / °C (0~50°C) <b>VIBRATION</b> 10~500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes										
<b>SAFETY &amp; EMC (Note. 7)</b>	<b>SAFETY STANDARDS</b> UL60950-1, CSA C22.2, TUV EN60950-1 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 class B <b>HARMONIC CURRENT</b> Compliance to EN61000-3-2,3 <b>EMS IMMUNITY</b> Compliance to EN61000-4-2,3,4,5,6,8,11, Light industry level, criteria A										
<b>OTHERS</b>	<b>MTBF</b> 500Khrs min. MIL-HDBK-217F(25°C) <b>DIMENSION</b> 93*54*36mm (L*W*H) <b>PACKING</b> 250g ; 60pcs / 16kg / CARTON										
<b>CONNECTOR</b>	<b>PLUG</b> Standard type P1J: 2.1φ * 5.5φ * 11mm, turning fork type, centre positive for stock ; Other type available by customer requested <b>CABLE</b> Standard type UL1185 6ft (with ferrite core) for stock ; Other type available by customer requested										
<b>NOTE</b>	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 20% 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

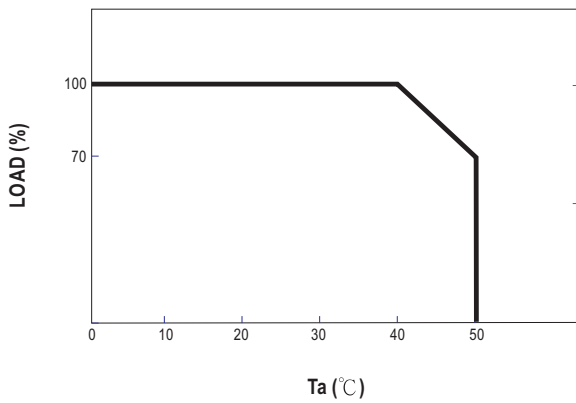


## ■ Plug Assignment

Standard plug: P1J (option)

P1J	
P/N	OUTPUT
CENTER	+

## ■ Derating Curve



## ■ Static Characteristics

