



- Features :
  - Universal AC input / Full range
  - 3 pole AC inlet IEC320-C14
  - Class I power (with earth pin)
  - Full output 5~48V safety approval
  - Protections: Short circuit / Overload / Over voltage
  - PWM 3842 control circuit and regulated
  - LED indicator for power on
  - Approvals: UL / CUL / TUV / BSMI / CB / FCC / CE
  - 1 year warranty

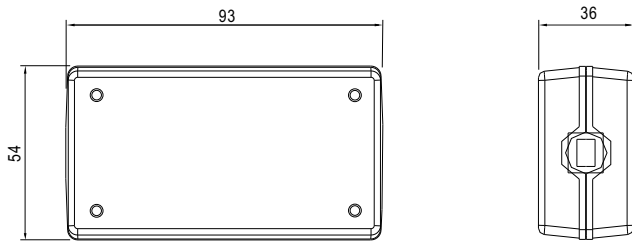
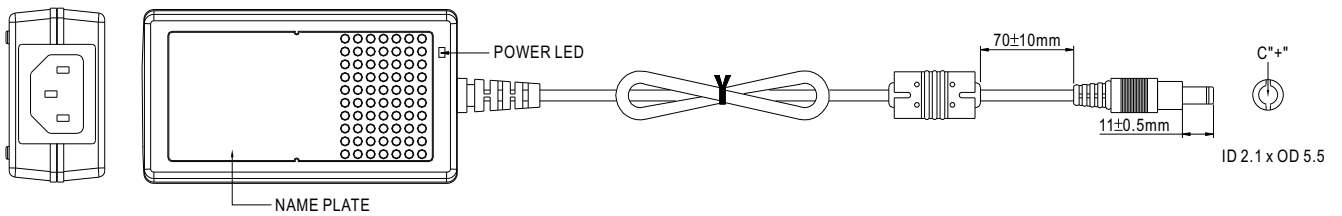
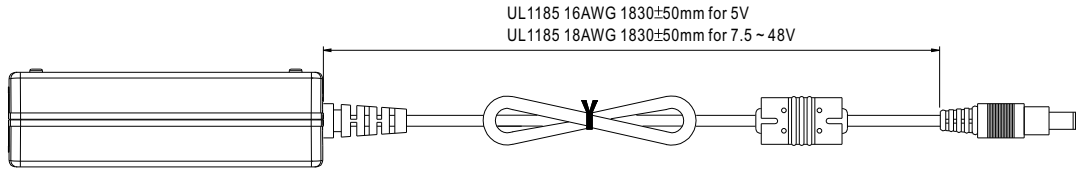


**SPECIFICATION**

ORDER NO.	ES25A05-P1J	ES25A07-P1J	ES25A09-P1J	ES25A12-P1J	ES25A15-P1J	ES25A18-P1J	ES25A24-P1J	ES25A28-P1J	ES25A36-P1J	ES25A48-P1J	
OUTPUT	<b>SAFETY MODEL NO.</b>	ES25A05-050	ES25A07-075	ES25A09-090	ES25A12-120	ES25A15-150	ES25A18-180	ES25A24-240	ES25A30-280	ES25A36-360	ES25A48-480
	<b>DC VOLTAGE</b> Note.2	5V	7.5V	9V	12V	15V	18V	24V	28V	36V	48V
	<b>RATED CURRENT</b>	4.0A	2.93A	2.77A	2.08A	1.66A	1.38A	1.04A	0.89A	0.69A	0.52A
	<b>CURRENT RANGE</b>	0.4 ~ 4.0A	0.3 ~ 2.93A	0.2 ~ 2.77A	0.1 ~ 2.08A	0.1 ~ 1.66A	0.1 ~ 1.38A	0.1 ~ 1.04A	0.1 ~ 0.89A	0.06 ~ 0.69A	0.05 ~ 0.52A
	<b>RATED POWER (max.)</b>	20W	22W	25W	25W	25W	25W	25W	25W	25W	25W
	<b>RIPPLE &amp; NOISE (max.)</b> Note.3	50mVp-p	80mVp-p	80mVp-p	80mVp-p	100mVp-p	150mVp-p	180mVp-p	240mVp-p	240mVp-p	240mVp-p
	<b>VOLTAGE TOLERANCE</b> Note.4	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±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%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%	±2.0%	±2.0%
<b>SETUP, RISE, HOLD UP TIME</b>	600ms, 50ms, 16ms at full load										
INPUT	<b>VOLTAGE RANGE</b>	90 ~ 264VAC 135 ~ 370VDC									
	<b>FREQUENCY RANGE</b>	47 ~ 63Hz									
	<b>EFFICIENCY (Typ.)</b>	70%	72%	76%	76%	78%	80%	82%	82%	82%	82%
	<b>AC CURRENT</b>	0.7A / 100VAC									
	<b>INRUSH CURRENT (max.)</b>	40A / 230VAC									
<b>LEAKAGE CURRENT(max.)</b>	0.75mA / 240VAC										
PROTECTION	<b>OVERLOAD</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 : Recovers automatically after fault condition is removed									
ENVIRONMENT	<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									
SAFETY & EMC (Note. 7)	<b>SAFETY STANDARDS</b>	UL60950-1, CSA C22.2, TUV EN60950-1, BSMI CNS14336 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 / 25°C / 70% RH									
	<b>EMI CONDUCTION &amp; RADIATION</b>	Compliance to EN55022 class B, FCC PART 15 / CISPR22 class B, CNS13438 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, Light industry level, criteria A									
OTHERS	<b>MTBF</b>	500Khrs min. MIL-HDBK-217F(25°C)									
	<b>DIMENSION</b>	93*54*36mm (L*W*H)									
	<b>PACKING</b>	250g ; 60pcs / 15kg / CARTON									
CONNECTOR	<b>PLUG</b>	Standard type P1J: 2.1φ * 5.5φ * 11mm, tuning fork type, center 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									
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 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

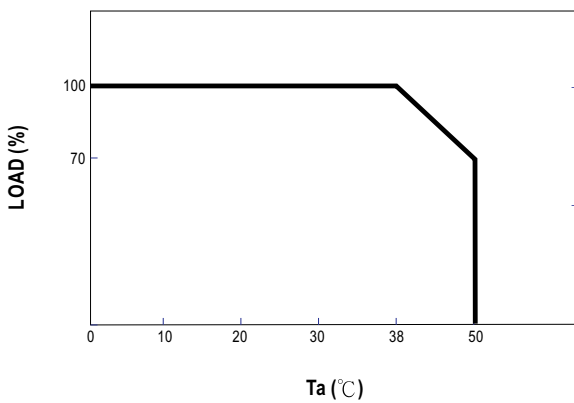


**Plug Assignment**

Standard plug: P1J (option)

P1J	
P/N	OUTPUT
CENTER	+

**Derating Curve**



**Static Characteristics**

