



- 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 / Overload / Over voltage
 - Fully enclosed plastic case
 - RCC control circuit and regulated
 - LED indicator for power on
 - Approvals: UL / CUL / TUV / CB
 - 1 year warranty

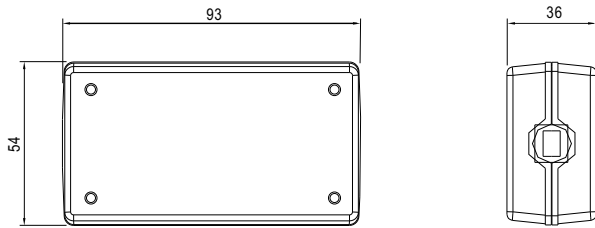
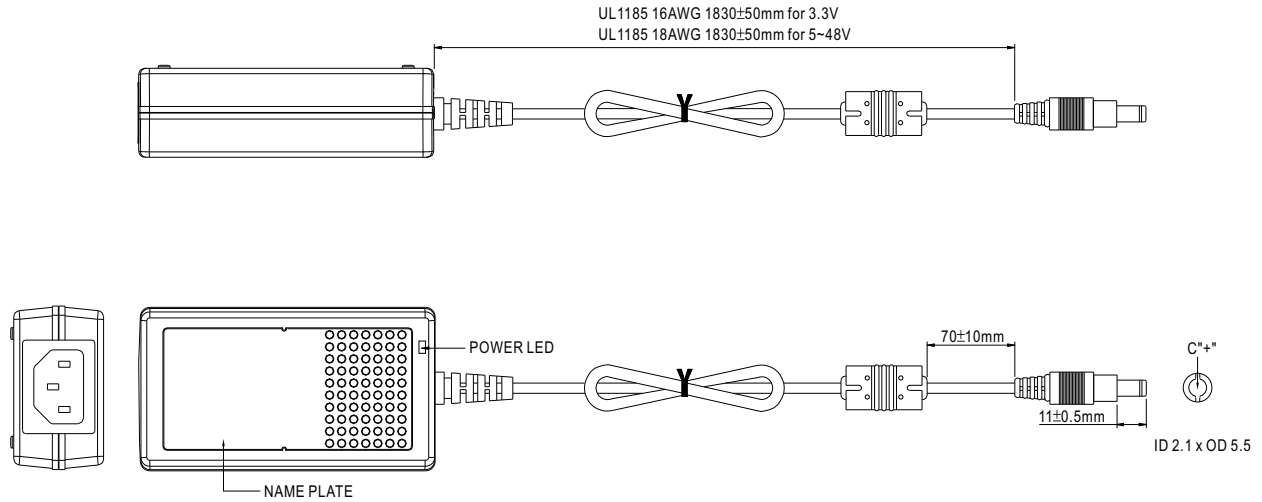


SPECIFICATION

ORDER NO.	ES18A03-P1J	ES18A05-P1J	ES18A07-P1J	ES18A09-P1J	ES18A12-P1J	ES18A15-P1J	ES18A18-P1J	ES18A24-P1J	ES18A28-P1J	ES18A48-P1J		
OUTPUT	SAFETY MODEL NO.											
	DC VOLTAGE	3.3V	5V	7.5V	9V	12V	15V	18V	24V	28V	48V	
	RATED CURRENT	2.72A	3.0A	2.0A	2.0A	1.50A	1.20A	1.0A	0.75A	0.64A	0.375A	
	CURRENT RANGE	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 ~ 0.375A	
	RATED POWER (max.)	9W	15W	15W	18W	18W	18W	18W	18W	18W	18W	
	RIPPLE & NOISE (max.)	50mVp-p	50mVp-p	80mVp-p	80mVp-p	80mVp-p	100mVp-p	150mVp-p	180mVp-p	240mVp-p	240mVp-p	
	VOLTAGE ADJ. RANGE	Fixed										
	VOLTAGE TOLERANCE	±5.0%	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%	±2.0%	
	LINE REGULATION	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	LOAD REGULATION	±5.0%	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%	±2.0%	
SETUP, RISE, HOLD UP TIME	300ms, 100ms, 16ms at full load											
INPUT	VOLTAGE RANGE											
	90 ~ 264VAC 135 ~ 370VDC											
	FREQUENCY RANGE											
	47 ~ 63Hz											
	EFFICIENCY (Typ.)											
	55% 70% 72% 72% 74% 77% 78% 80% 81% 82%											
PROTECTION	AC CURRENT											
	0.5A / 100VAC											
	INRUSH CURRENT (max.)											
	40A / 230VAC											
	LEAKAGE CURRENT(max.)											
0.75mA / 240VAC												
PROTECTION	OVERLOAD											
	110 ~ 200% rated output power 130 ~ 350% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed											
PROTECTION	OVER VOLTAGE											
	105 ~ 135% rated output voltage Protection type : Clamp by zener diode, output short											
ENVIRONMENT	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												
SAFETY & EMC (Note. 7)	TEMP. COEFFICIENT											
	±0.03% / °C (0 ~ 50°C)											
	VIBRATION											
	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes											
	SAFETY STANDARDS											
UL60950-1, CSA C22.2, TUV EN60950-1 approved												
SAFETY & EMC (Note. 7)	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 class B												
SAFETY & EMC (Note. 7)	HARMONIC CURRENT											
	Compliance to EN61000-3-2,3											
	EMS IMMUNITY											
	Compliance to EN61000-4-2,3,4,5,6,8,11, light industry level, criteria A											
	MTBF											
500Khrs min. MIL-HDBK-217F(25°C)												
OTHERS	DIMENSION											
	93*54*36mm (L*W*H)											
	PACKING											
250g ; 60pcs / 15kg / CARTON												
CONNECTOR	PLUG											
	Standard type P1J: 2.1φ * 5.5φ * 11mm, tuning fork type, center positive for stock ; Other type available by customer requested											
CONNECTOR	CABLE											
	Standard type UL1185 6ft (with ferrite core) for stock ; Other type available by customer requested											
NOTE	<p>1.All parameters are specified at 230VAC input, rated load, 25°C 70% RH ambient.</p> <p>2.DC voltage: The output voltage set at point measure by plug terminal & 50% load.</p> <p>3.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor.</p> <p>4.Tolerance: includes set up tolerance, line regulation, load regulation.</p> <p>5.Line regulation is measured from low line to high line at rated load.</p> <p>6.Load regulation is measured from 20% to 100% rated load</p> <p>7.The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives.</p>											

Mechanical Specification

Unit:mm

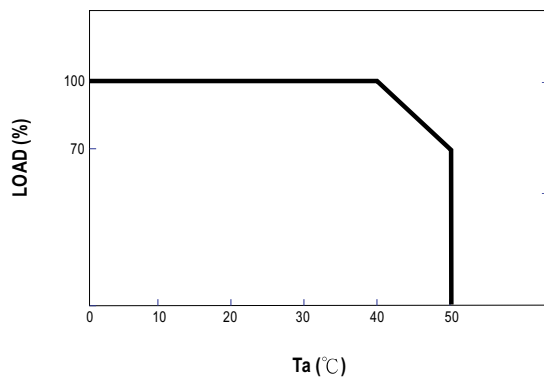


Plug Assignment

Standard plug: P1J (option)

P1J	
P/N	OUTPUT
CENTER	+

Derating Curve



Static Characteristics

