



■ Features :

- Universal AC input / Full range
- 3 pole AC inlet IEC320-C6
- 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 / BSMI / CCC / CB / FCC / CE
- 1 year warranty

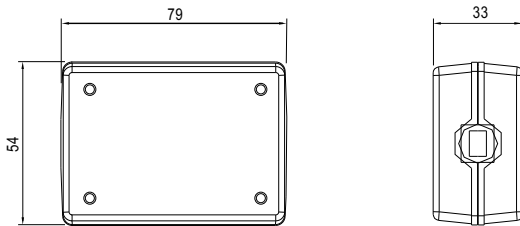
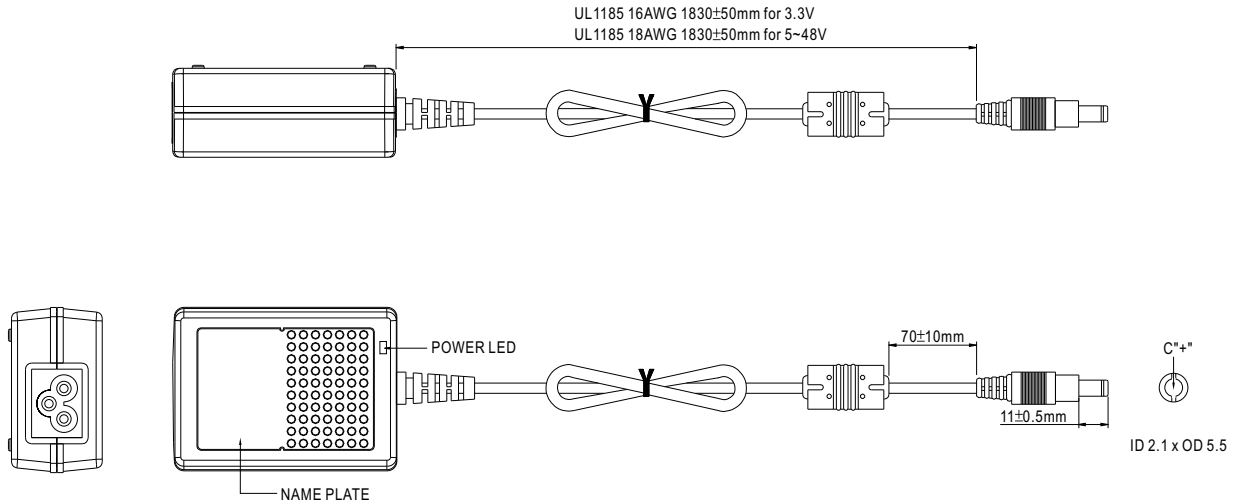


SPECIFICATION

ORDER NO.	ES18C03-P1J	ES18C05-P1J	ES18C07-P1J	ES18C09-P1J	ES18C12-P1J	ES18C15-P1J	ES18C18-P1J	ES18C24-P1J	ES18C28-P1J	ES18C48-P1J		
OUTPUT	SAFETY MODEL NO.											
	DC VOLTAGE <small>Note.2</small>	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.) <small>Note.3</small>	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 <small>Note.4</small>	±5.0%	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%	±2.0%	
	LINE REGULATION <small>Note.5</small>	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	LOAD REGULATION <small>Note.6</small>	±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	200ms, 50ms, 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%		
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											
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												
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. 7)	SAFETY STANDARDS											
	UL60950-1, CSA C22.2, TUV EN60950-1, BSMI CNS14336, CCC GB4943 approved											
	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, FCC PART 15 / CISPR22 class B, CNS13438 class B, GB9254 class B												
HARMONIC CURRENT												
Compliance to EN61000-3-2,3, GB17625.1												
EMS IMMUNITY												
Compliance to EN61000-4-2,3,4,5,6,8,11, light industry level, criteria A												
OTHERS	MTBF											
	500Khrs min. MIL-HDBK-217F(25°C)											
	DIMENSION											
79*54*33mm (L*W*H)												
PACKING												
220g ; 60pcs / 13.5kg / CARTON												
CONNECTOR	PLUG											
	Standard type P1J: 2.1φ * 5.5φ * 11mm, tuning fork type, center positive for stock ; Other type available by customer requested											
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

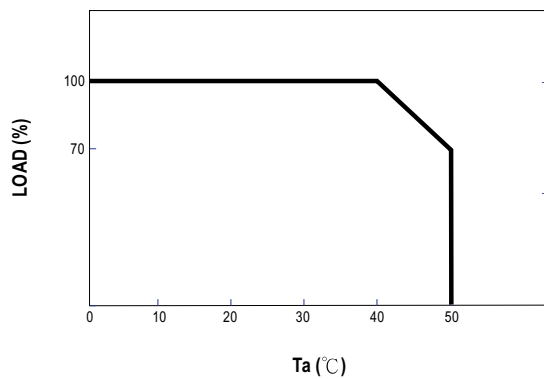


Plug Assignment

Standard plug: P1J (option)

P1J	
P/N	OUTPUT
CENTER	+

Derating Curve



Static Characteristics

