



- 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 / Over load / Over voltage
- RCC control circuit and regulated
- Pass LPS for 9~48V output
- Fully enclosed plastic case
- LED for power on
- Approvals: UL/ CUL / TUV / CCC / CB / CE
- 1 year warranty

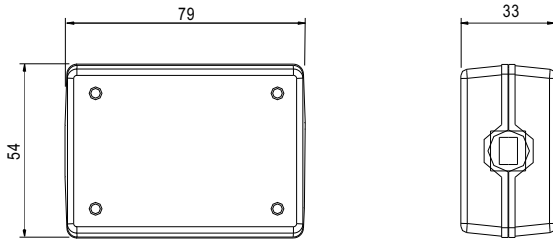
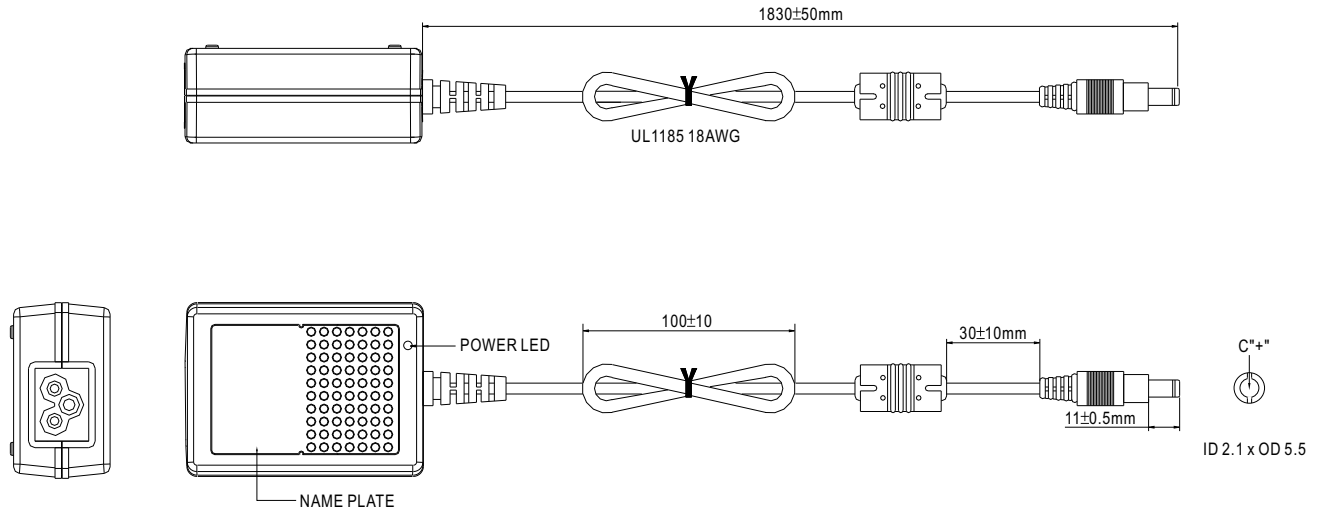


SPECIFICATION

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	Note.2 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	0.38A				
	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 ~ 0.38A				
	RATED POWER (max.)	9W	15W	15W	18W	18W	18W	18W	18W	18W	18W				
	RIPPLE & NOISE (max.)	Note.3 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	Note.4 ±5.0%	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%	±2.0%				
	LINE REGULATION	Note.5 ±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%				
	LOAD REGULATION	Note.6 ±5.0%	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%	±2.0%				
SETUP, RISE, HOLD TIME	200ms, 50ms, 16ms at full load														
INPUT	VOLTAGE RANGE														
	90 ~ 264VAC 135~370VDC														
	FREQUENCY RANGE														
	47~63Hz														
	EFFICIENCY (Typ.)	65%	70%	72%	74%	76%	77%	78%	80%	82%	83%				
AC CURRENT	0.5A / 100VAC														
INRUSH CURRENT (max.)	30A / 230VAC														
LEAKAGE CURRENT(max.)	0.75mA / 240VAC														
PROTECTION	OVER LOAD					110~150% rated output power					130~180% 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														
	UL1950, CSA22.2, EN60950 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															
EMI CONDUCTION & RADIATION															
Compliance to EN55022 class B															
HARMONIC CURRENT															
Compliance to EN61000-3-2,3															
EMS IMMUNITY															
Compliance to EN61000-4-2,3,4,5,6,8,11, ENV50204, Light industry level, criteria A															
OTHERS	MTBF														
	500Khrs min. MIL-HDBK-217F(25°C)														
	DIMENSION														
79*54*33mm (L*W*H)															
PACKING															
220g ; 50pcs / 13kg / CARTON															
CONNECTOR	PLUG														
	Standard type P1J: 2.1φ * 5.5φ * 11mm, turning fork type, centre 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 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

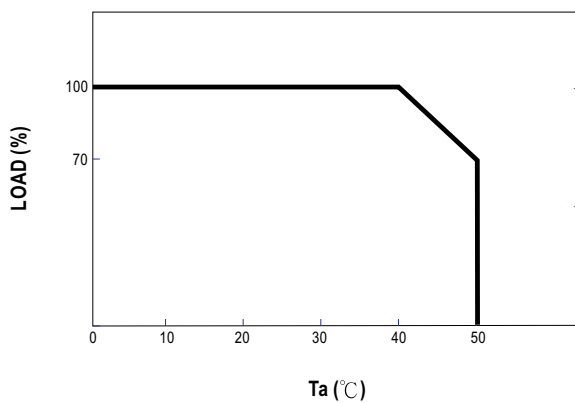


Plug Assignment

Standard plug: P1J (option)

P1J	
P/N	OUTPUT
CENTER	+

Derating Curve



Static Characteristics

