



■ 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
- Fully enclosed plastic case
- LED for power on
- Approvals: UL/ CUL / TUV / BSMI / CCC / CB / CE / FCC
- 1 year warranty

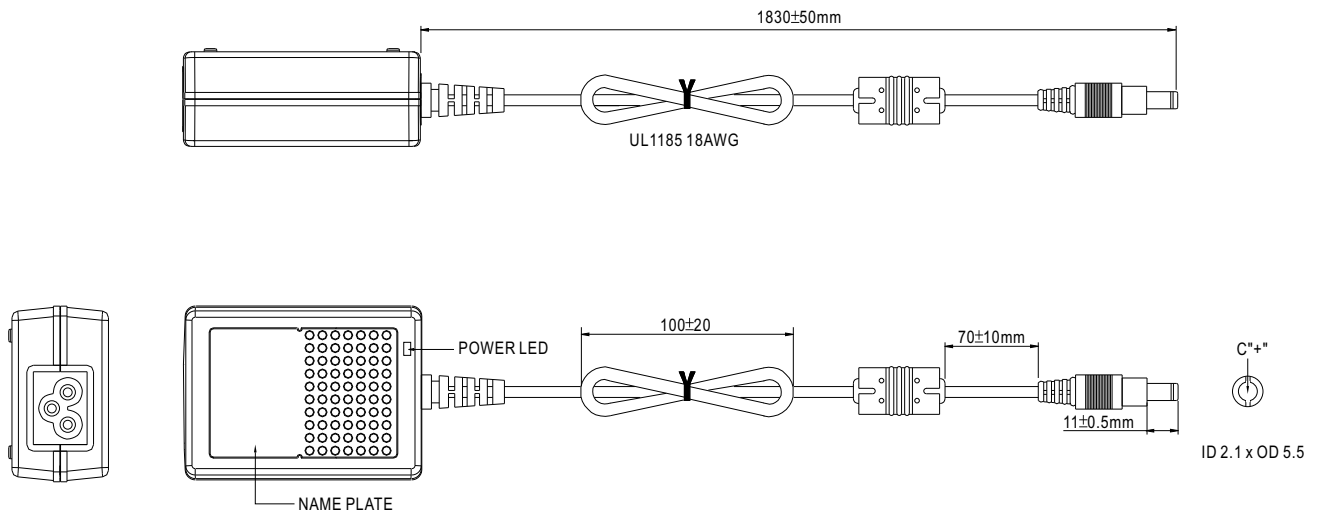


SPECIFICATION

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.	ES18C03	ES18C05	ES18C07	ES18C09	ES18C12	ES18C15	ES18C18	ES18C24	ES18C28	ES18C48					
	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	0.375A					
	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.) 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.)	55%	70%	72%	74%	76%	77%	78%	80%	81%	82%					
	AC CURRENT	0.5A / 100VAC														
	INRUSH CURRENT (max.)	40A / 230VAC														
	LEAKAGE CURRENT(max.)	0.75mA / 240VAC														
PROTECTION	OVER LOAD	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									
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ENVIRONMENT	WORKING TEMP.	0 ~ +50℃ (Refer to output load derating curve)														
	WORKING HUMIDITY	20% ~ 90% RH non-condensing														
	STORAGE TEMP., HUMIDITY	-20 ~ +85℃, 10 ~ 95% RH														
	TEMP. COEFFICIENT	±0.03% / °C (0 ~ 50℃)														
	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														
	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℃)														
	DIMENSION	79*54*33mm (L*W*H)														
	PACKING	220g ; 60pcs / 13kg / 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		1.All parameters are specified at 230VAC input, rated load, 25℃ 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

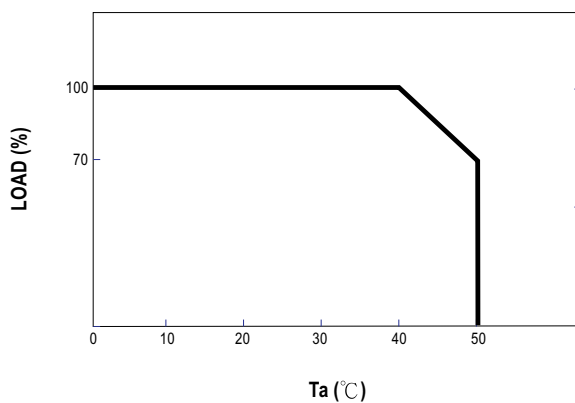


Plug Assignment

Standard plug: P1J (option)

P1J	
P/N	OUTPUT
CENTER	+

Derating Curve



Static Characteristics

