



- Features :
- Universal AC input / Full range
- 2 pole USA plug
- Class II power (without 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 / CCC / CB / CE
- 1 year warranty

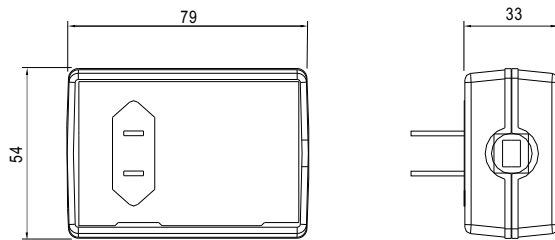
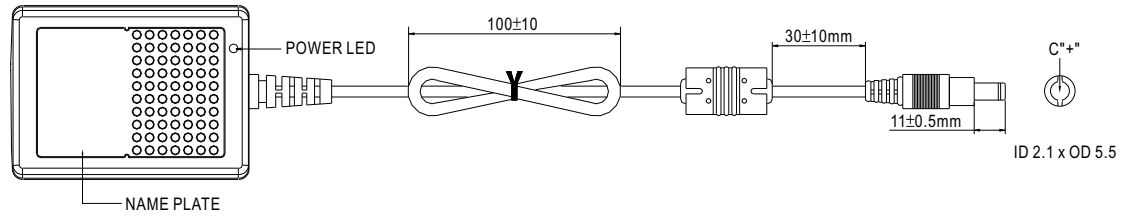
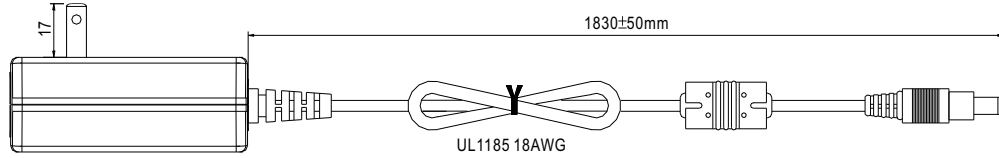


**SPECIFICATION**

ORDER NO.	ES18U03-P1J	ES18U05-P1J	ES18U07-P1J	ES18U09-P1J	ES18U12-P1J	ES18U15-P1J	ES18U18-P1J	ES18U24-P1J	ES18U28-P1J	ES18U48-P1J	
OUTPUT	SAFETY MODEL NO.	ES18U03	ES18U05	ES18U07	ES18U09	ES18U12	ES18U15	ES18U18	ES18U24	ES18U28	ES18U48
	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	0.38A
	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.) <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 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.)	0.25mA / 240VAC										
PROTECTION	OVER LOAD	110~150% rated output power					130~180% rated output power				
	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 <small>(Note. 7)</small>	SAFETY STANDARDS	UL1950, CSA22.2 Approved									
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC									
	ISOLATION RESISTANCE	I/P-O/P: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	1.All parameters are specified at 115VAC 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

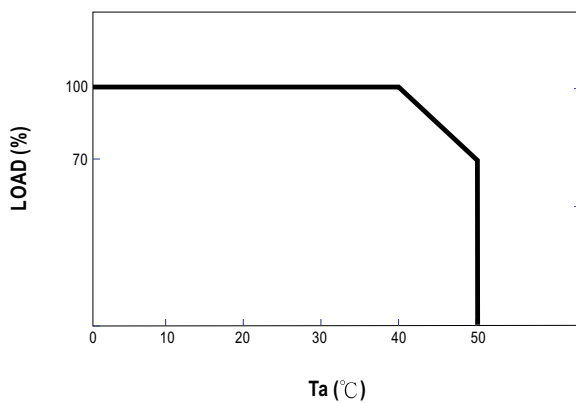


## Plug Assignment

Standard plug: P1J (option)

P1J	
P/N	OUTPUT
CENTER	+

## Derating Curve



## Static Characteristics

