



■ Features :

- Universal AC input / Full range
- 2 pole AC inlet IEC320-C8
- 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 / TUV / CCC / CB / CE
- 1 year warranty

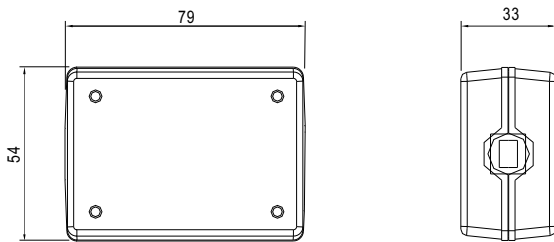
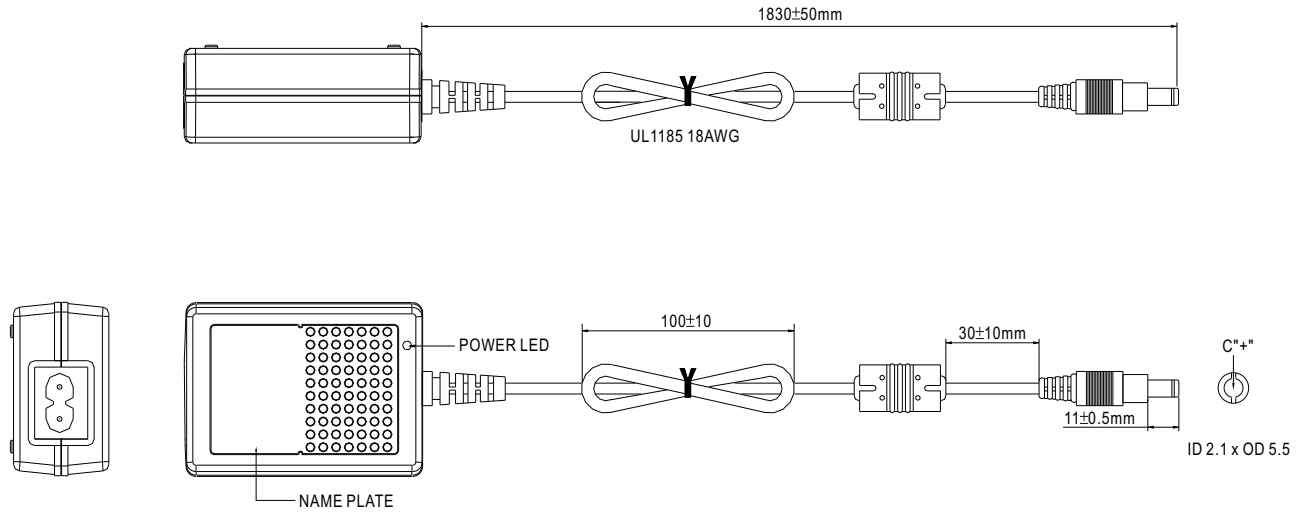


SPECIFICATION

ORDER NO.	ES18B03-P1J	ES18B05-P1J	ES18B07-P1J	ES18B09-P1J	ES18B12-P1J	ES18B15-P1J	ES18B18-P1J	ES18B24-P1J	ES18B28-P1J	ES18B48-P1J		
OUTPUT	SAFETY MODEL NO.		ES18B03	ES18B05	ES18B07	ES18B09	ES18B12	ES18B15	ES18BA18	ES18B24	ES18B28	ES18B48
	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.)		0.25mA / 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									
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									
	TEMP. COEFFICIENT		±0.03% / °C (0~50°C)									
SAFETY & EMC (Note. 7)	VIBRATION		10~500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes									
	SAFETY STANDARDS		UL1950, CSA22.2, EN60950 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									
OTHERS	EMS IMMUNITY		Compliance to EN61000-4-2,3,4,5,6,8,11, ENV50204, Light industry level, criteria A									
	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 &amp; 50% load.</p> <p>3. Ripple &amp; noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf &amp; 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

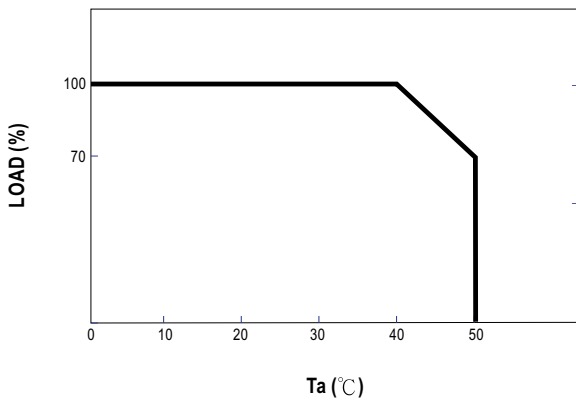


■ Plug Assignment

Standard plug: P1J (option)

P1J	
P/N	OUTPUT
CENTER	+

■ Derating Curve



■ Static Characteristics

