



## 15W AC-DC Single Output Desktop

# ES18A07-EM03



### ■ Features :

- Universal AC input / Full range
- 3 pole AC inlet IEC320-C14
- Class I power
- 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 / FCC / CE
- 1 year warranty

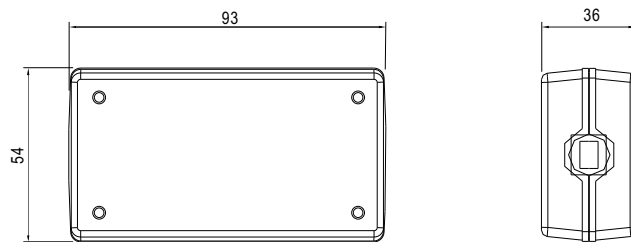
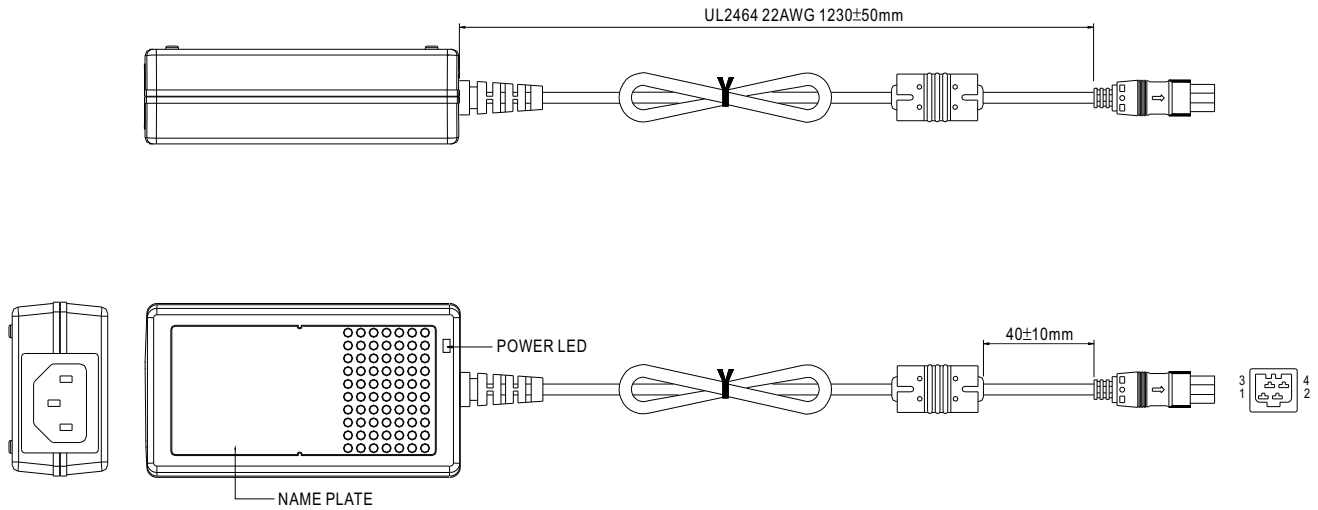


### SPECIFICATION

ORDER NO.		ES18A07-EM03
OUTPUT	SAFETY MODEL NO.	ES18A07
	DC VOLTAGE <small>Note.2</small>	6V
	RATED CURRENT	2.5A
	CURRENT RANGE	0.3 ~ 2.5A
	RATED POWER (max.)	15W
	RIPPLE & NOISE (max.) <small>Note.3</small>	80mVp-p
	VOLTAGE ADJ. RANGE	Fixed
	VOLTAGE TOLERANCE <small>Note.4</small>	±5.0%
	LINE REGULATION <small>Note.5</small>	±1.0%
	LOAD REGULATION <small>Note.6</small>	±5.0%
INPUT	SETUP, RISE, HOLD TIME	300ms, 100ms, 16ms at full load
	VOLTAGE RANGE	90 ~ 264VAC 135 ~ 370VDC
	FREQUENCY RANGE	47 ~ 63Hz
	EFFICIENCY (Typ.)	72%
	AC CURRENT	0.5A / 100VAC
	INRUSH CURRENT (max.)	40A / 230VAC
PROTECTION	LEAKAGE CURRENT(max.)	0.75mA / 240VAC
	OVER LOAD	110 ~ 200% 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
	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	93*54*36mm (L*W*H)
	PACKING	250g ; 60pcs / 15kg / CARTON
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

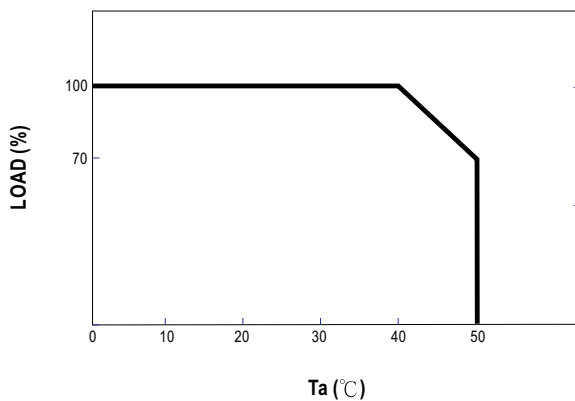
Unit:mm



## Plug Assignment

P/N	OUTPUT
1	GND
2	NC
3	NC
4	+V

## Derating Curve



## Static Characteristics

