



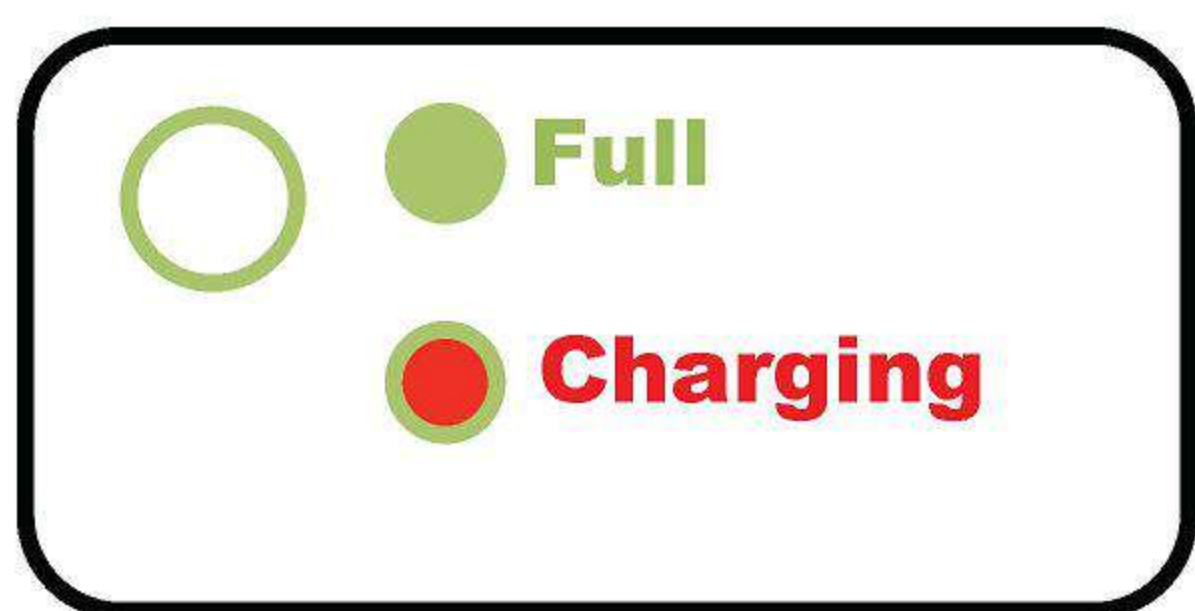
## ■ Features

- AC100-240V input for worldwide used with rechargeable AC cord C13 inlet
- Perfect for charging all SLA/VRLA/GEL/AGM Lead acid battery
- Fully automatic 3 stages charging process
- Bi-color indicator for battery charging,Red:charging Green:Floating
- Output constant current for faster charging
- Protections:Short circuit/OVP/OCP/Overload/Polarity reversed
- 100% full load and burn-in test
- High efficiency,long life and high reliability
- 2 years warranty

## ■ Description

EP-3PA30XX series is a 30W 3 stages universal fully automatic charger/maintainer with Bi-color indicator for battery charging. EP-3PA30XX fully automatic 3 stages CC-CV(H)-CV(F) charging process,stage "CC" the charger outputs bulk current charging. The battery voltage rise gradually. Then,"CV(H)"stage is followed,the output voltage is limited at 14.7V.when the charging current drops to 1/10C(0.2~0.3A) ;The battery is nearly full,stage"CV(F)" will turn on duty,the charger outputs voltage at 13.8V begin to float charge.at this stage,the battery is charged completely

## ■ Display Panel



LED color:

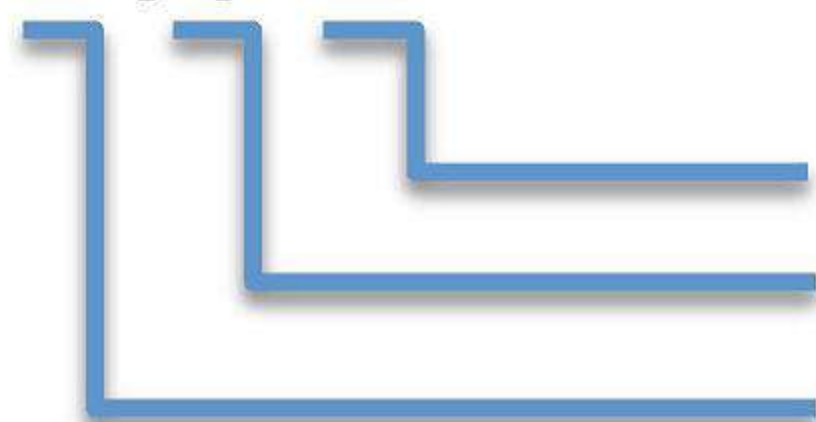
Green:Power on/Floating/ Battey is full

Red:Charging

Off:fault /such as the polarity reversed

## ■ Model Encoding

**EP-3PA30XX**



Output voltage

Output power

Battery type



## ■ Applications

Suit battery:

- SLA/GEL/AGM 6V 12~40Ah
- VRLA battery 12V 5~12AH
- 24V 5~7Ah

e-bike,motorcycle,electric vehicle ,  
electric tools, emergency light, R/C toys,  
portable electronics devices ,  
field detection instrument



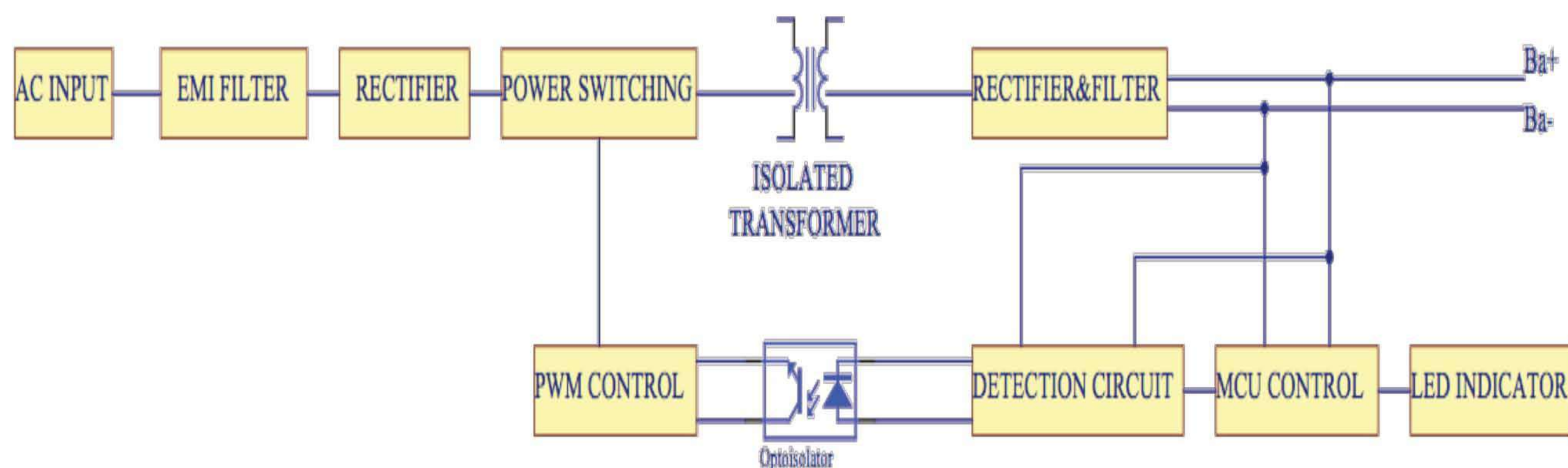


## ■Specification

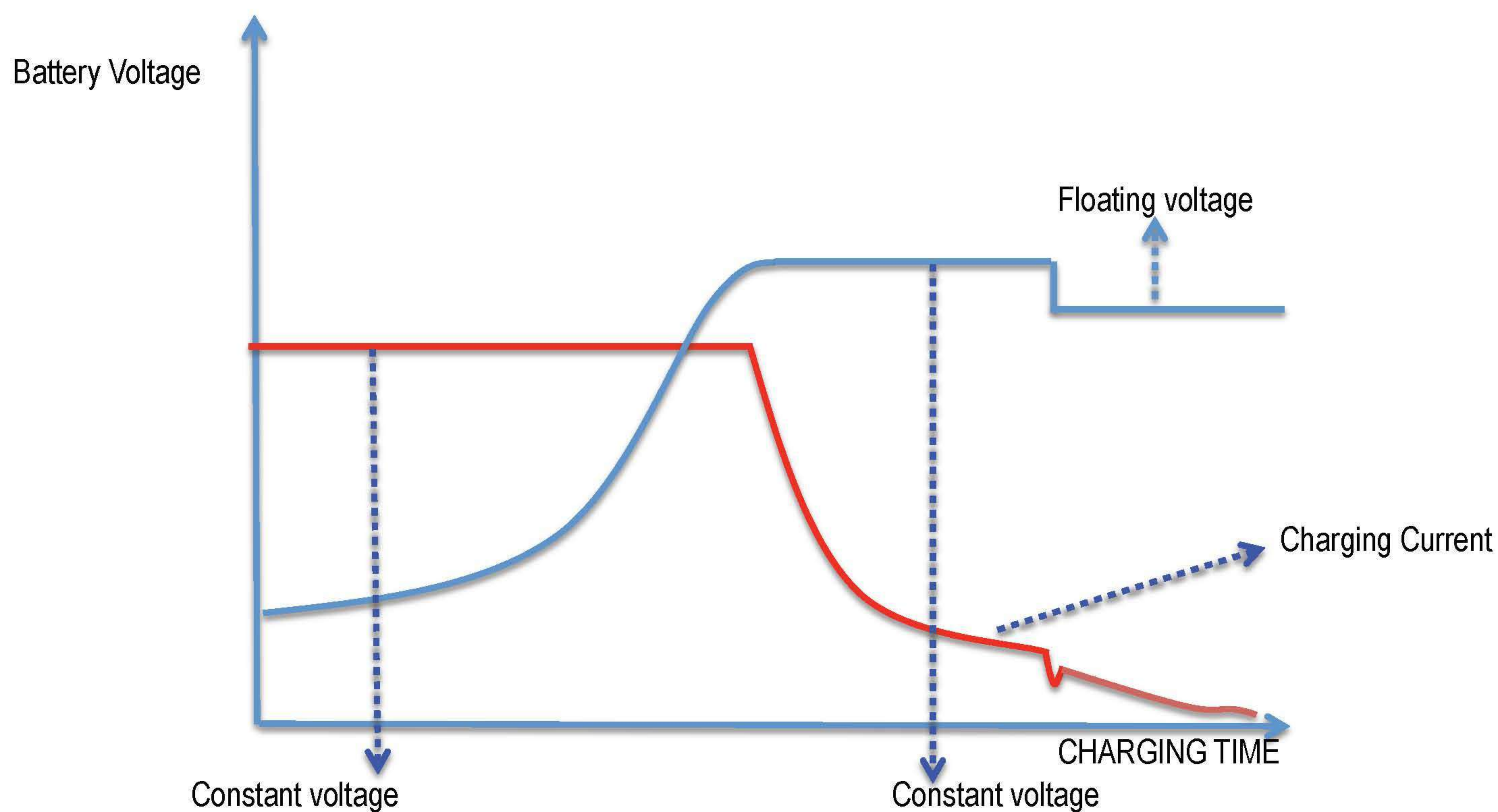
Model		EP-3PA3010	EP-3PA3015	EP-3PA3024			
OUTPUT	DC Voltage	6.9V	13.8V	27.6V			
	RATED CURRENT	4A	2A	1A			
	RATED POWER	29.4W	29.4W	29.4W			
	VOLTAGE RANGE	6~7.5V	12~15V	24~30V			
	CURRENT RANGE	±0.3A	±0.3A	±0.3A			
	VOLTAGE TOLERANCE	±1%	±1%	±1%			
	LINE REGULATION	±0.5%	±0.5%	±0.5%			
INPUT	VOLTAGE RANGE	100~240VAC					
	FREQUENCY RANGE	47~63Hz					
	EFFICIENCY	80%	80%	80%			
	AC CURRENT	0.3A/115 VAC 0.15A/230VAC					
FUNCTION	CHAEING PROCESS	CC-CV(H)-CV(F)					
	CHARGING MODE	Automatic 3 stages					
	FOLATING CHARGE CONDITION	>0.4A	>0.3A	>0.2A			
	CHARGING INDICATOR	Red LED:Charging Green LED:Power on/Floating					
	SUIT BATTERY	6V 10~30AH	12V 7~20Ah	24V 5~10Ah			
	CHARGING TIME	1~10H					
PROTECTION	OVER VOLTAGE	7.5V(Limited)	15V(limited)	30V(limited)			
	OVER LOAD	110~140% rated output power					
	OUTPUT SHORTED	LED OFF/Hiccup mode,recovers automatically after fault condition is removed					
	POLARITY REVERSED	LED OFF/Hiccup mode,recovers automatically after fault condition is removed					
ENVIRONMEN	WORKING TEMP.	-10 ~ +50°C					
	WORKING HUMIDITY	20`90% RH NON-CONDENSING					
	STORAGE TEMP.,HUMIDITY	-10 ~ +50°C 20`90%					
	Cooling	Natural convection					
	water poof	IP64 Dust protected,water splashing resistance					
	IMPACT	1 Meter drop test>=3times					
SAFETY	SAFETY STANDARDS	EN60335 UL1310					
	EMC STANDARD	T.B.D					
	MTBF	30000 Hrs MIL-HDBK-217F					
	ESD	8KV					
	ISOLATION RESISTNCE	i/p to o/p: 3000V (1 min.)					
	MAX.TEMP.RISE	< 40°C on casing					
MECHANICAL	WEIGHT	250g					
	SIZE	117*60*35MM					
	CASE	PLASTIC PC 945					



## ■Block Diagram

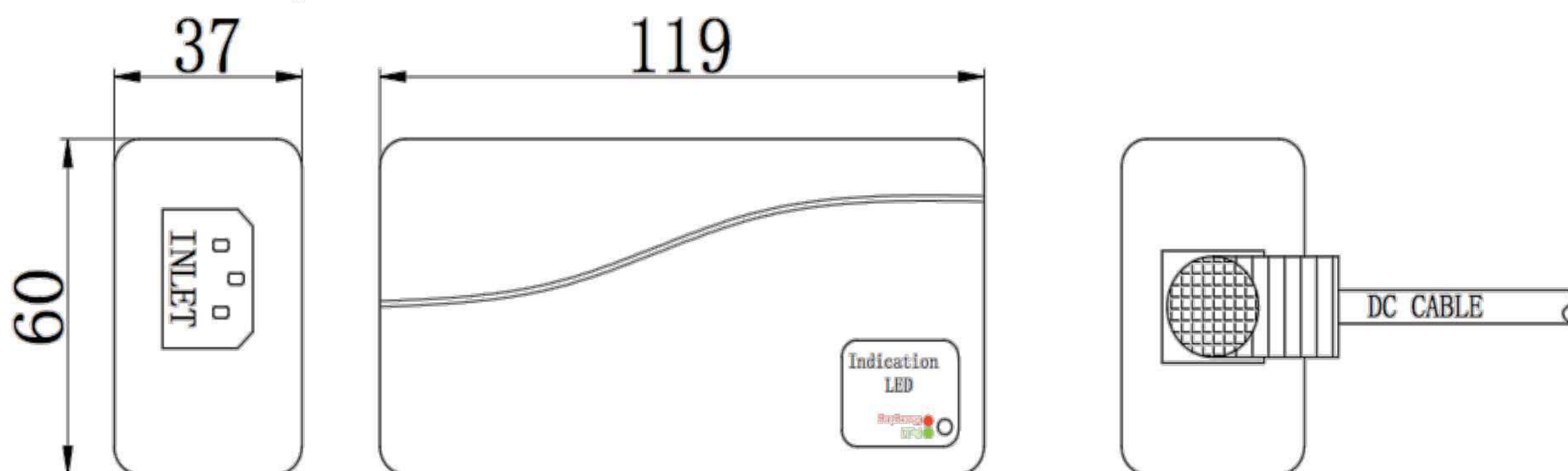


## ■CHARGING CURVES





## ■Mechanical Specification



## DC Connector

NLA-1 (1.5×4.5×10mm)



NLA-2 (1.35×3.5×10mm)



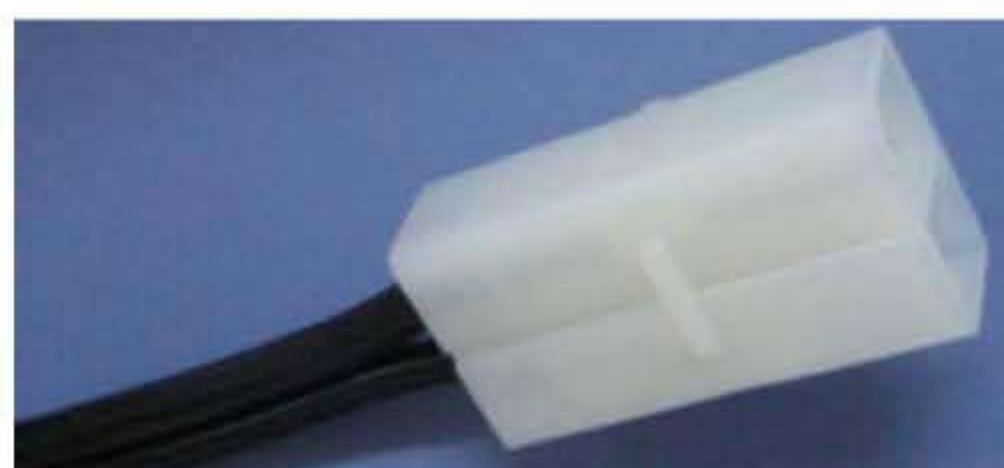
NLA-3 (2.1×5.5×12)



NLA-4 (2.5×5.5×12)



NLA-5 (KET-MG-620006)



NLA-6 (KET-MG-620024)



NLA-7 (L-Alligator clips, 15A)



NLA-8 (Ring terminal)



NLA-9 (SS-Alligator clips, 3A)



NLA-11 (XLR Male)



NLA-12 (Lotus)



NLA-13 (Voyage terminal)



NLA-14 (XLR Female)

