

















■ Features

- AC100-240V input for worldwide used with rechangeable AC cord C13 inlet
- Perfect for charging all Lithium ion/Polymer batteries
- •Fully automatic 4 stages charging process by MCU controlled
- •Green 4Leds indicator for battery charging and Red Led indicator for Power on
- 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

■ **Applications**Suit battery:

Li-ion battery

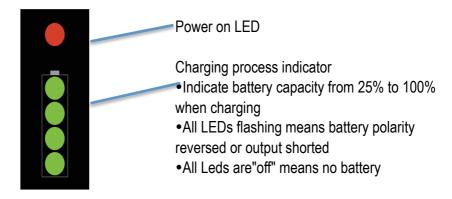
3 cells 5~40AH

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

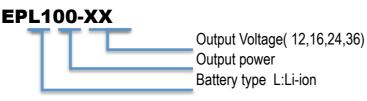
■ Description

EPL100-XX series is a 100W 4 stages smart battery charger by MCU controlled with 4Leds indicator for battery charging EPL100-XX programmed 4 stages Ip-Im-Um-Cut off charging process ,Stage "Ip" is a pre-charge function for deep dischargedbattery ,it is helpful for battery's cycle life when battery recovered by Ip small current, stage "Ip" will output bulk current, Then, "Um" stage is followed, the output voltage is limited at 4.2V/cell, until the charging current declined to 0.4A under until the charging current declined to 0.5A under, At this stage, the battery is charged completely and the charger will cut off output automatic

■ Display Panel



■ Model Encoding





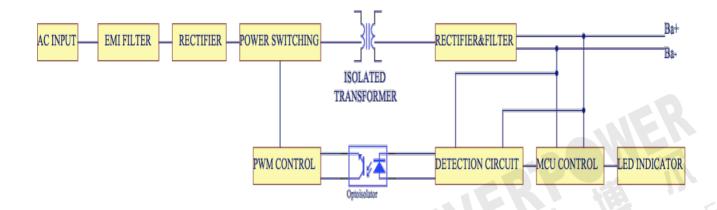


■Specification

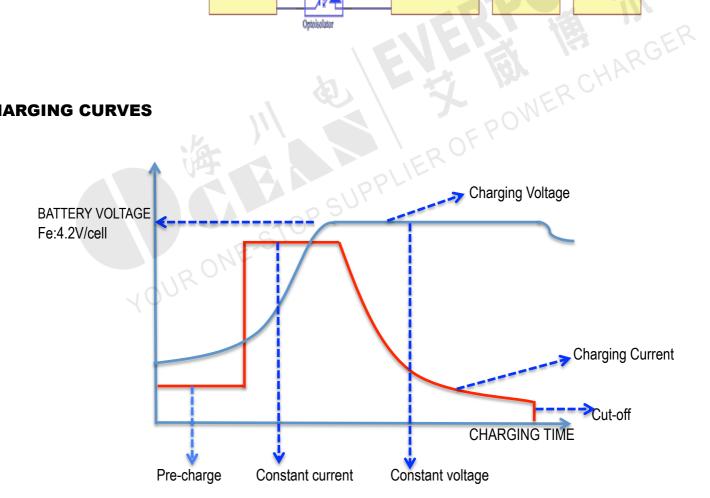
in a control in the	ation	EDI 400 40	EDI 400-40	EDI 400 04	EDI 400-40			
Model		EPL100-12	EPL100-16	EPL100-24	EPL100-42			
	DC Voltage	12.6V	16.8V	29.4V	42V			
	RATED CURRENT	5A	4.5A	3 A	2A			
F	RATED POWER	63W	75.6W	88.2W	84W			
OUTPUT V	VOLTAGE RANGE	7.5V~12.75V	10V~17V	17.5V~30V	25V~42.5V			
_	CURRENT RANGE	±0.3A	±0.3A	±0.3A	±0.3A			
	VOLTAGE	. 40/	. 40/	. 40/	. 40/			
l	TOLERANCE	±1%	±1%	±1%	±1%		12	
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%		S GEIN	
ı ⊢	VOLTAGE RANGE	100~240VAC						
IINPUT 📙		47~63Hz	Inno.	loov	lance	130	2611	
l	EFFICIENCY	80%	80%	80%	80%	ME		
	AC CURRENT	0.8A/115 VAC						
	CHAEGING PROCESS	Ip-Im-Um-Cut off						
<u> </u>	CHARGING MODE	Fully automatically 4 stages by MCU controlled						
	CHARGE END CONDITION	>0.4A	>0.3A	>0.3A	>0.2A			
	CHARGING INDICATOR	Red LED:Power on 4Green LED:25%~100% battery capacity Green LED Flash:Fault						
		3cell Li	4cells Li	8cells Li 3-	10cells Li 2-			
<u> </u>	SUIT BATTERY	5~40Ah	5~32Ah	25Ah	15Ah			
c	CHARGING TIME	1~8H						
	OVER VOLTAGE	12.75V(limited)	17V(limited)	30(limited)	42.5V(limited)			
	OVER LOAD	110~140% rated output power						
L	OUTPUT SHORTED	Green LED Flash/Hiccup mode,recovers automatically after fault condition is removed						
	POLARITY REVERSED	Green LED Flash/Hiccup mode,recovers automatically after fault condition is removed						
V	WORKING TEMP.	-10 ~ +50°C						
		20`90% RH NON-CONDENSING						
	STORAGE TEMP.,HUMIDITY	-10 ~ +50°C 20`90%						
	Cooling	Natural convection						
<u> </u>	water poof	IP64 Dust protected,water splashing resistance						
li li	MPACT	1 Meter drop test>=3times						
<u> </u>	SAFETY STANDARDS	UL60950 EN60950-1 EN55022 IEC60960-1						
E	EMC STANDARD	T.B.D						
	MTBF	30000 Hrs MIL-HDBK-217F						
SVEETA N	VIIDI		8KV					
SAFETY	ESD	8KV						
SAFETY E		8KV i/p to o/p: 3000	0V (1 min.)					
SAFETY E	ESD SOLATION							
SAFETY E	ESD SOLATION RESISTNCE	i/p to o/p: 3000	ing					
SAFETY E	ESD SOLATION RESISTNCE MAX.TEMP.RISE WEIGHT	i/p to o/p: 3000 < 40°C on cas	ing y)					



■Block Diagram



ECHARGING CURVES





■Mechanical Specification

