

60W MCU controlled 4-stage smart battery charger

EP60XXLX series

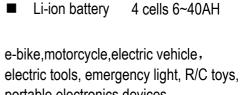




Features

- AC100-240V input for worldwide used with rechangeable AC cord C13 inlet
- Perfect for charging all Li-ion battery
- •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

Description



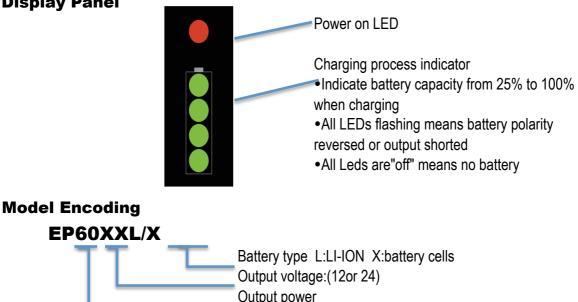
Applications

Suit battery:

portable electronics devices, field detection instrument

EP60XXLX series is a 60W 4 stages smart battery charger by MCU controlled with 4Leds indicator for battery charging EP60XXLX 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/cells, until the charging current declined to 0.4A under At this stage, the battery is charged completely and the charger will cut off output automatic

Display Panel



Http://www.oceanpowercharger.com



60W MCU controlled 4-stage smart battery charger

EP60XXLX series

■Specification

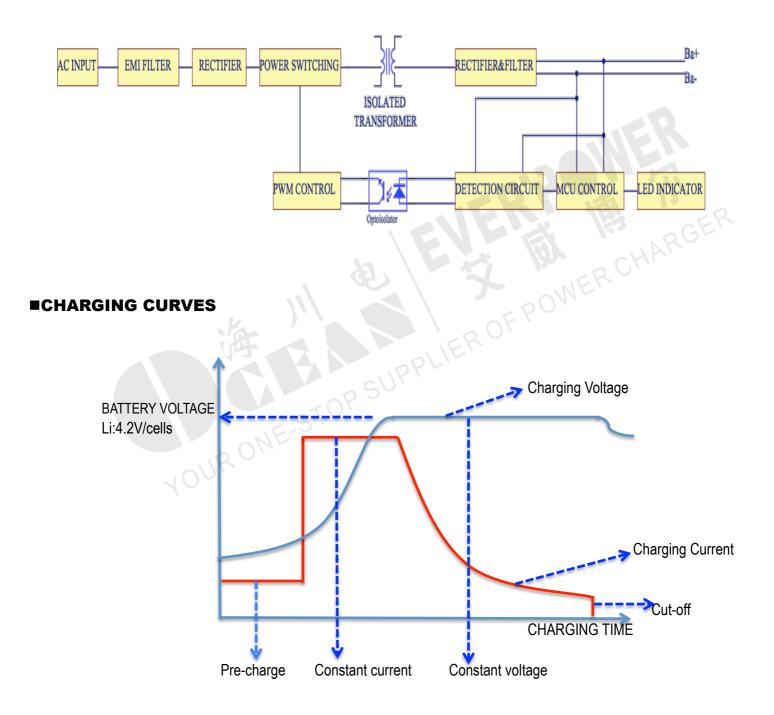
	ation			1			1				
Model		EP6012L3	EP6012L4	EP6024L6	EP6024L7						
OUTPUT	DC Voltage	12.6V	16.8V	25.6V	29.4V						
	RATED CURRENT	4A	3.5A	2A	2A						
	RATED POWER	50.4W	58.8W	51.2W	58.8W						
	VOLTAGE RANGE	7.5V~12.75V	10V~17V	15V~25.6V	17.5V~29.4V						
	CURRENT RANGE	±0.3A	±0.3A	±0.2A	±0.2A						
	VOLTAGE										
	TOLERANCE	±1%	±1%	±1%	±1%						
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%						
INPUT	VOLTAGE RANGE	100~240VAC									
	FREQUENCY RANGE										
	EFFICIENCY	80%	80%	80%	80%						
	AC CURRENT	0.6A/115 VAC 0.3A/230VAC									
FUNCTION	CHAEGING PROCESS	Ip-Im-Um-Cut off									
	CHARGING MODE	Fully automatically 4 stages by MCU controlled									
	CHARGE END CONDITION	>0.4A	>0.3A	>0.2A	>0.2A						
	CHARGING INDICATOR	Red LED:Power on 4Green LED:25%~100% battery capacity Green LED Flash:Fault									
		3cell li	4cells li	6cells Li 3-	7cells li						
	SUIT BATTERY	4~60Ah	6~40Ah	30Ah	3~30Ah						
	CHARGING TIME										
PROTECTION	OVER VOLTAGE	12.6V	16.8V	25.6V	29.4V						
	OVER LOAD	110~140% rated output power									
	OUTPUT SHORTED	Green LED Flash/Hiccup mode, recovers automatically after fault condition is removed									
	REVERSED	Green LED Flash/Hiccup mode, recovers automatically after fault condition is removed									
	WORKING TEMP.	-10 ~ +50°C									
ENVIRONME		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	EN60950-1 EN55022 EN6900 RoHs									
	EMC STANDARD	T.B.D									
	MTBF	30000 Hrs MIL-HDBK-217F									
		8KV									
	ESD										
	ISOLATION										
	ISOLATION RESISTNCE	i/p to o/p: 300									
	ISOLATION RESISTNCE MAX.TEMP.RISE	i/p to o/p: 300 < 40°C on ca	sing								
	ISOLATION RESISTNCE MAX.TEMP.RISE WEIGHT	i/p to o/p: 300 < 40°C on ca 300g (only bo	sing dy)								
MECHANICAL	ISOLATION RESISTNCE MAX.TEMP.RISE WEIGHT	i/p to o/p: 300 < 40°C on ca	sing dy)								

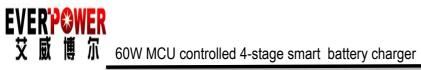


60W MCU controlled 4-stage smart battery charger

EP60XXLX series

■Block Diagram





EP60XXLX series

Mechanical Specification

