

















■ 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:

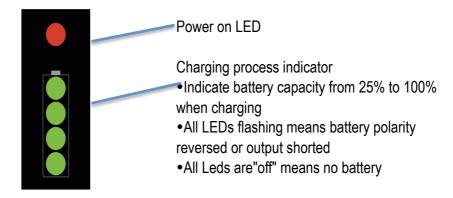
■ Li-ion battery 4 cells 5~32AH

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

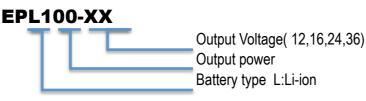
■ Description

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 lp-Im-Um-Cut off charging process ,Stage "lp" is a pre-charge function for deep dischargedbattery ,it is helpful for battery's cycle life when battery recovered by Ip small current, stage "lp" 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





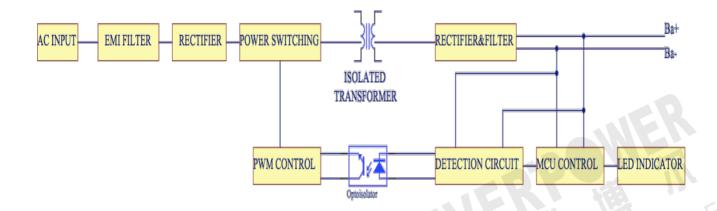


■Specification

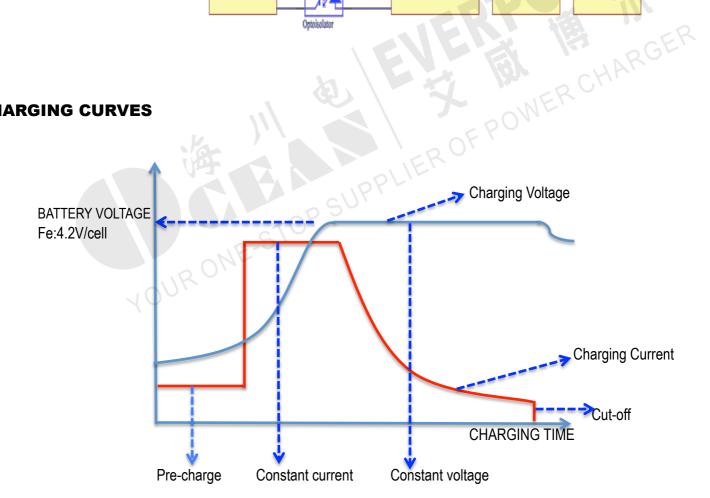
DC Voltage					
RATED CURRENT 5A 4.5A 3 A 2A 2A RATED POWER 63W 75.6W 88.2W 84W VOLTAGE RANGE 7.5V-12.75V 10V-17V 17.5V-30V 25V-42.5V VOLTAGE RANGE ±0.3A ±0.3A ±0.3A ±0.3A ±0.3A VOLTAGE ±1%					
RATED POWER 63W 75.6W 88.2W 84W					
VOLTAGE RANGE					
CURRENT RANGE					
VOLTAGE					
TOLERANCE					
LINE REGULATION					
NPUT FREQUENCY RANGE 100~240VAC FREQUENCY RANGE 47~63Hz EFFICIENCY 80% 80% 80% 80% 80% 80% AC CURRENT 0.8A/115 VAC 0.4A/230VAC CHAEGING PROCESS Ip-Im-Um-Cut off PROCESS CHARGING MODE Fully automatically 4 stages by MCU controlled CHARGE END CONDITION >0.4A >0.3A >0.3A >0.2A >0.2A	12				
FREQUENCY RANGE 47-63Hz	GE!				
EFFICIENCY	THE SHAPE				
AC CURRENT 0.8A/115 VAC 0.4A/230VAC CHAEGING PROCESS	C/,				
CHAEGING					
PROCESS CHARGING MODE CHARGE END CONDITION 20.4A 20.3A 20.3A 20.2A CHARGING CHARGING INDICATOR 3cell Li 4cells Li 5~40Ah 5~32Ah 25Ah 15Ah CHARGING OVER VOLTAGE OVER VOLTAGE OVER LOAD 110~140% rated output power PROTECTION OUTPUT SHORTED POLARITY REVERSED WORKING TEMP. 400°C 20'90% Natural convection Ip-im-Um-Cut off Fully automatically 4 stages by MCU controlled A stages by A stages by Astages by					
CHARGE END CONDITION ONLY CONDITION CONDITION ONLY CHARGING INDICATOR Red LED:Power on 4Green LED:25%~100% battery capacity Green LED Flash:Fault SCUIT BATTERY S-40Ah S-32Ah S-32Ah	LER OF				
CONDITION >0.4A >0.3A >0.3A >0.2A	controlled				
Red LED:Power on 4Green LED:25%~100% battery capacity Green LED Flash:Fault Sult Battery 3cell Li 4cells Li 8cells Li 3- 10cells Li 2- 5~40Ah 5~32Ah 25Ah 15Ah					
SUIT BATTERY 5~40Ah 5~32Ah 25Ah 15Ah CHARGING TIME 1~8H OVER VOLTAGE 12.75V(limited) 17V(limited) 30(limited) 42.5V(limited) OVER LOAD 110~140% rated output power PROTECTION 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 WORKING TEMP10 ~ +50°C WORKING HUMIDITY 20°90% RH NON-CONDENSING STORAGE TEMP.,HUMIDITY -10 ~ +50°C 20°90% ENVIRONMEN TEMP.,HUMIDITY Cooling Natural convection	D:25%~100% battery capacity Green LED Flash:Fault				
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OVER VOLTAGE OVER LOAD 110~140% rated output power OUTPUT SHORTED POLARITY REVERSED WORKING TEMP. WORKING HUMIDITY ENVIRONMEN TEMP., HUMIDITY Cooling OVER VOLTAGE 12.75V(limited) 17V(limited) 30(limited) 42.5V(limited) 42.5					
OVER LOAD 110~140% rated output power OUTPUT SHORTED Green LED Flash/Hiccup mode,recovers automatically after fault condition is removed POLARITY REVERSED WORKING TEMP. -10 ~ +50°C WORKING HUMIDITY STORAGE TEMP.,HUMIDITY Cooling Natural convection					
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POLARITY REVERSED Green LED Flash/Hiccup mode,recovers automatically after fault condition is removed WORKING TEMP. WORKING HUMIDITY Over 10 ~ +50°C WORKING HUMIDITY STORAGE TEMP.,HUMIDITY Cooling Natural convection					
REVERSED WORKING TEMP. WORKING HUMIDITY STORAGE ENVIRONMEN TEMP., HUMIDITY Cooling Green LED Flash/Hiccup mode, recovers automatically after fault condition is removed -10 ~ +50°C 20`90% RH NON-CONDENSING -10 ~ +50°C 20`90% Natural convection					
WORKING HUMIDITY 20`90% RH NON-CONDENSING STORAGE ENVIRONMEN TEMP.,HUMIDITY Cooling Natural convection					
STORAGE ENVIRONMEN TEMP.,HUMIDITY Cooling Natural convection					
ENVIRONMEN TEMP.,HUMIDITY Cooling Natural convection					
 					
water poof IP64 Dust protected water splashing resistance					
in a r Basic protestical fraction opinioning resolution					
IMPACT 1 Meter drop test>=3times					
SAFETY STANDARDS UL60950 EN60950-1 EN55022 IEC60960-1					
EMC STANDARD T.B.D					
SAFETY 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					
WEIGHT 350g (only body)					
MECHANICAL SIZE 172X72X40 MM					
CASE PLASTIC PC 945					



■Block Diagram



ECHARGING CURVES





■Mechanical Specification

