

# ABFYY180 Series Battery Charger



## 180W

Output power: 180W  
 Output circuit: Single output  
 Output voltage: 12 - 72V  
 Enable Control Optional: 5.0V/12V

## Electrical Specifications

Input	
Input range	AC: 100-120Vac/ 200-240Vac
Frequency	50-60HZ
Input Fuse	6.3A
Input maximum power	212W
Efficiency	N 85%
Leakage Current	W 0.75mA

Isolation	Input to output: 1500Vac 50Hz 1 minute W 10mA
	Input to case: 1000Vac 50Hz 1 minute W 10mA
	Output to case: DC500V 50MQ Min.

## Product Features

- 180W
- Economy
- Circuit topology : Voltage Half-bridge type
- Dual-color LED charging status (Optional: digital voltage display)
- Intelligent PWM IC control, fully automatic transition of CC, CV and Float/Cut off, meet the demands for different charging Curve
- Protections: Over Voltage, Over Current, Over temperature, Short Circuit, Reverse Polarity, shut off or trickle and anti-reverse charge
- Aluminum case, Robust, Elegant and Reliable

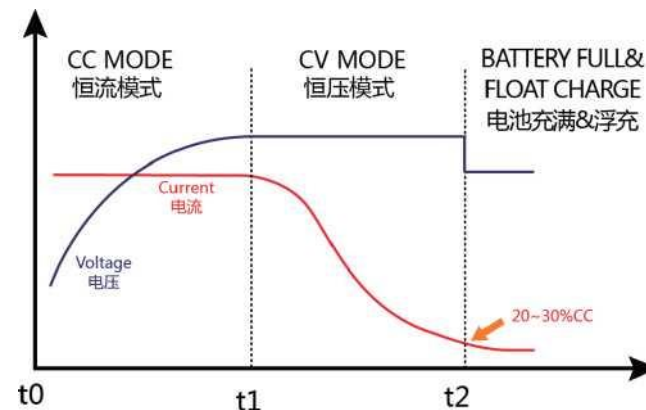
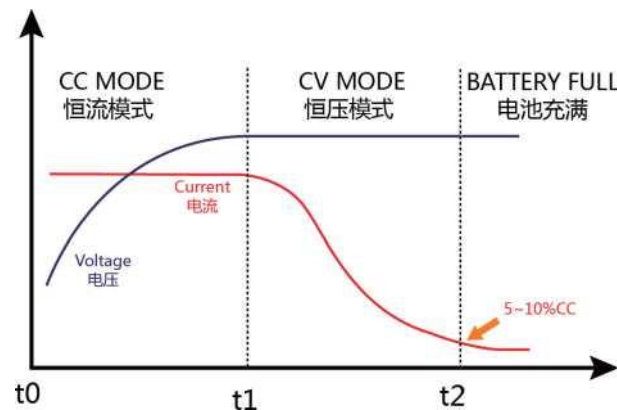
## Environmental Specifications

Operating Temperature	-20°C - +40°C
Storage Temperature	-40°C - +70°C
Operating Humidity	5% - 95%RH Non-condensing
Fan Noise	W 40dB
Altitude	2000m
Vibration	5mm/50Hz/600S

## Safety Certificate

UL	
CSA	
VDE	
CE	EN60950-1

## Charging curve



## Electrical Specifications

Output		
Rated output	Refer to output reference	
Voltage setting accuracy	±1%	110/220Vac input
Total output voltage adjustment rate	1%	Power adjustment rate and load adjustment rate
Ripple	W output voltage 1 %	Main output (board edge) (Test with adding 0.1 uF ceramic capacitor and 10uF tantalum capacitor filter at the output and the bandwidth is 20MHz)
Short Circuit Protection (SCP)	Protect the power from damage	Constant charge current mode with zero voltage
Output isolation	-	Safety standards
Output Over Current Protection (OCP)	-	When the charger output current exceeds the maximum charging current, it enters the over current protection state. The output current will be limited to the max charging current value, and the output voltage will be reduced to nearly 0V.
Output Over Voltage Protection (OVP)	-	The charger enters the standby protection state , when output voltage exceeds the max charging voltage
Over-Temperature protection	Automatic recovery	85°C (±5) Protect, 65°C (±5) Self-recovery
Reverse Polarity Protection	Charger is not damaged	Breaking fuse (standard with 2 replaceable)

## Output Reference

Model	Nominal Voltage	Constant Voltage	Constant Current	Switching Current		AC Input Plugs (optional)	DC Output Plugs (optional)	Adjustment Rate/Load Adjustment Rate
				□ (CC8%)	Lead-acid (CC25%)			
1	12 V	14.6 V	8 A	640ma	2000ma	Refer to AC input plugs	Refer to DC output plugs	1%
2	24 V	29.4 V	5 A	400ma	1250ma	Refer to AC input plugs	Refer to DC output plugs	1%
3	36 V	43.8 V	4 A	320ma	1000ma	Refer to AC input plugs	Refer to DC output plugs	1%
4	48 V	58.8 V	3 A	240ma	750ma	Refer to AC input plugs	Refer to DC output plugs	1%
5	60 V	67.2 V	2.5 A	200ma	625ma	Refer to AC input plugs	Refer to DC output plugs	1%
6	72 V	87.6 V	2 A	160ma	500ma	Refer to AC input plugs	Refer to DC output plugs	1%