

# ABFYY2000Z Series Battery Charger



## 2000W

Output power: 2000W  
 Output Circuit: Single Output  
 Output voltage: 12-120V  
 Optional: 5.0V/12V standby voltage  
 Enable Control Optional: 5.0V/12V

## Electrical Specifications

	Input
Input range	AC:100-120Vac/200-240Vac
Frequency	50-60HZ
Input fuse	25A
Input maximum power	2248W
Efficiency	> 89%
Leakage current	W 0.75mA

Isolation Input to Output: 500Vac 50Hz 1 minute W 10mA  
 Input to case : 1500Vac 50Hz 1 minute W 10mA  
 Output to case :DC500V 50MQ Min

## Product Features

- 2000W
- Economy, Aluminum case, easy handling
- Circuit topology: Current full-bridge typ
- Optional function: MCU, CAN Communicate etc.
- CPU and intelligent PWM IC control ,full automatic transition of CC,CV and Float/Cut-off, meet the demands for different Curve.
- Protections: Over Current, Over Voltage, Over temperature, Short Circuit, Reverse Polarity, shut off or trickle and anti-reverse charge
- Voltage, current, time, charge capacity LCD display
- Intelligent cooling fan, controlled by temperature

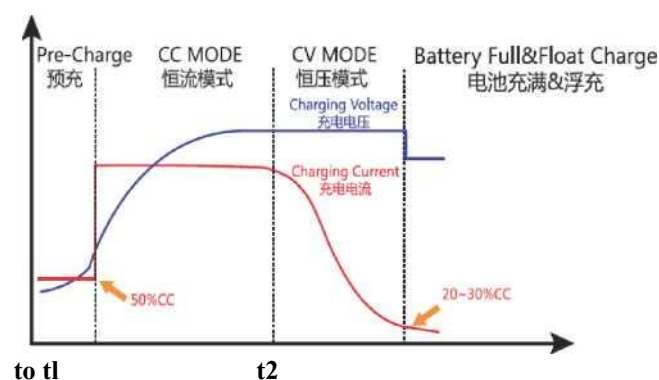
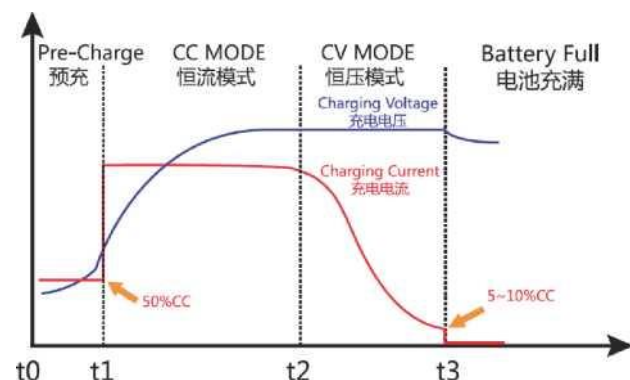
## Environmental Specifications

Operating temperature	-20°C - +40°C
Storage Temperature	-40°C - +70°C
Operating humidity	5% - 95% RH Non-condensing
fan noise	W 55dB
Altitude	2000m
Anti-vibration	5mm/50Hz/600S

## Safety Certificate

UL  
 CSA  
 VDE  
 CE EN60950  
 CB Scheme

## 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 voltage	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	Relay off, no output
Output isolation		Safety standards
Output Over Current Protection (OCP)	Disconnected the output	The charger enter the standby protection state , when output current exceeds the max charging current.
Output Over Voltage Protection (OVP)	PWM off	The charger enter the standby protection state , when output current exceeds the max charging voltage .
Over-temperature protection	Automatic recovery	85°C (±5) Protect, 75°C (±5) Self-recovery
Reverse Polarity Protection	Automatic recovery	Relay off, no output

## Output Reference

Model	Nominal Voltage	Constant Voltage	Constant Current	Switching Current		AC Input Plugs (optional)	DC Output Plugs (optional)	Adjustment Rate/Load Adjustment Rate
				Li (CC8%)	Lead-acid (CC25%)			
1	12 V	14.6 V	90 A	7200ma	22500ma	Refer to AC inp 插头 plugs	Refer to DC output plugs	1%
2	24 V	29.4 V	60 A	4800ma	15000ma	Refer to AC input plugs	Refer to DC output plugs	1%
3	36 V	43.8 V	40 A	3200ma	10000ma	Refer to AC input plugs	Refer to DC output plugs	1%
4	48 V	58.8 V	30 A	2400ma	7500ma	Refer to AC input plugs	Refer to DC output plugs	1%
5	60 V	67.2 V	25 A	2000ma	6250ma	Refer to AC input plugs	Refer to DC output plugs	1%
6	72 V	87.6 V	20 A	1600ma	5000ma	Refer to AC input plugs	Refer to DC output plugs	1%
7	84 V	102.9 V	18 A	1440ma	4500ma	Refer to AC input plugs	Refer to DC output plugs	1%
8	96 V	109.2 V	16 A	1280ma	4000ma	Refer to AC inp 插头 plugs	Refer to DC output plugs	1%
9	108V	117.6V	10 A	800ma	2500ma	Refer to AC input plugs	Refer to DC output plugs	1%
10	120V	134.4V	9A	720ma	2250ma	Refer to AC input plugs	Refer to DC output plugs	1%