

ABFYY500 Series Battery Charger



500W

Output power: 500W
Output circuit: Single output
Output voltage: 36 - 72V

Product Features

- 500W
- Economy
- Circuit topology: Voltage Half-bridge type
- Dual-color LED charging status (Optional: digital voltage display)
- 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
- 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
Anti-vibration	5mm/50Hz/600S

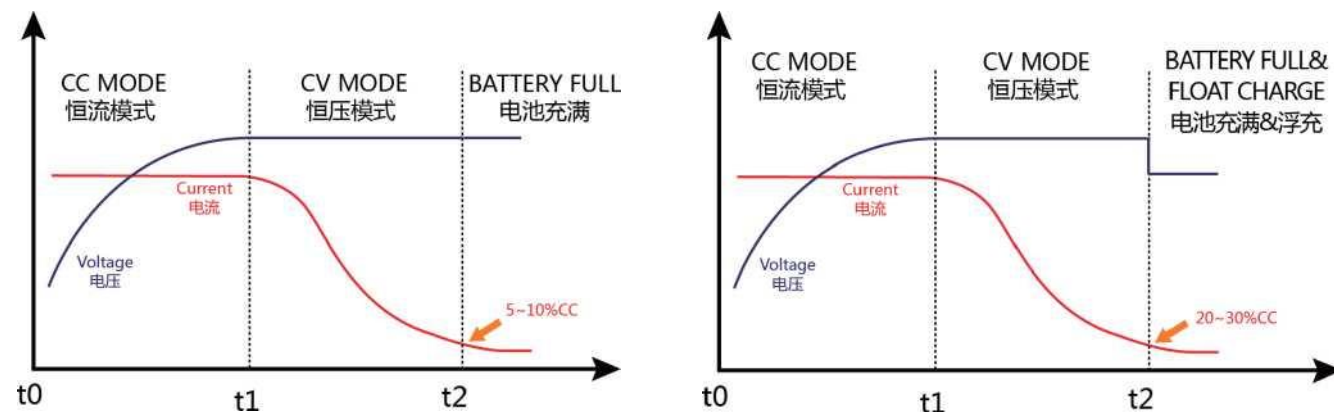
Safety Certificate

UL	
CSA	
VDE	
CE	EN60335

Electrical Specifications

	Input
Input range	AC:200-240Vac(Only)
Frequency	50-60HZ
Input Fuse	8A
Input maximum power	562W
Efficiency	> 89%
Leakage Current	W 0.75mA
Isolation	Input to Output:1500Vac 50Hz 1 minute W 10mA Input to case: 1500Vac 50Hz 1 minute W 10mA Output to case: 500Vac 50Hz 1 minute W 10mA

Charging curve



Electrical Specifications

		Output
Rated output	Refer to output reference	
Voltage setting accuracy	±1%	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	Current-limited 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 maximum charging current value, and the output voltage will be reduced to nearly OV.
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, 75°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
				Li (CC8%)	Lead-acid (CC25%)			
3	36V	43.8V	10A	800ma	2500ma	Refer to AC input plugs	Refer to DC output plugs	1%
4	48 V	58.8 V	8A	640ma	2000ma	Refer to AC input plugs	Refer to DC output plugs	1%
5	60 V	67.2 V	7 A	560ma	1750ma	Refer to AC input plugs	Refer to DC output plugs	1%
6	72 V	87.6 V	6 A	480ma	1500ma	Refer to AC input plugs	Refer to DC output plugs	1%