ABFYY2500 Series Battery Charger

2500W

Output power: 2500W
Output circuit: Single output
Output voltage: 24 - 120V
Optional: 5.0V/12V standby voltagel
Enable Control Optional: 5.0V/12V

Product Features

- 2500W
- Economy, Aluminum case, easy handling
- Circuit topology: Full-bridge type

, Optional function: MCU, CAN Communicate etc.

- MCU 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
- Intelligent cooling fan, controlled by temperature

Electrical Specifications

	Input
Input range	AC:100-120Vac/ 200-240Vac
Input range	50-60 HZ
Input fuse	16AX2
Input maximum power	2809W
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: DC500V 50MQ Min

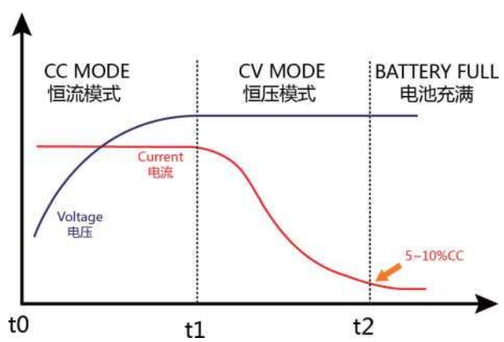
Environmental Specifications

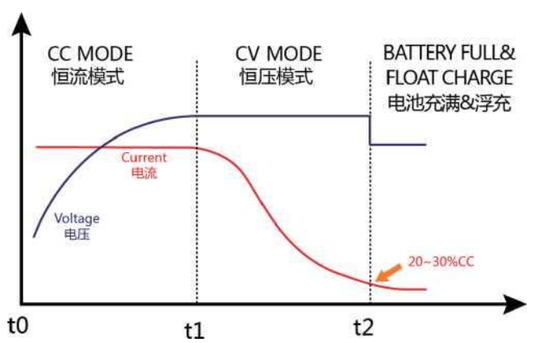
Operating temperature	-20°C - +40°C
Storage Temperature	-40°C - +70°C
Operating humidity fan noise	5% - 95% RH Non-condensing W 55dB
Altitude Anti-vibration	2000m 5mm/50Hz/600S

Safety Certificate

UL CSA	
VDE	
CE CB Scheme	EN60950

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	Constant charge current mode with zero voltage / Output disconnect (relay) self-recovery
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
				危）	Lead-acid (CC25%)			
2	24V	29.4 V	65 A	5200ma	16250ma	Refer to AC input plugs	Refer to DC output plugs	**1%**
3	36 V	43.8 V	45 A	3600ma	11250ma	Refer to AC input plugs	Refer to DC output plugs	**1%**
4	48V	58.8 V	40 A	3200ma	10OOOma	Refer to AC input plugs	Refer to DC output plugs	**1%**
5	60 V	67.2 V	28 A	2240ma	7000ma	Refer to AC input plugs	Refer to DC output plugs	**1%**
6	72 V	87.6 V	23 A	1840ma	5750ma	Refer to AC input plugs	Refer to DC output plugs	**1%**
7	84 V	102.9 V	20 A	1600ma	5000ma	Refer to AC input plugs	Refer to DC output plugs	**1%**
8	96 V	109.2 V	18 A	1440ma	4500ma	Refer to AC input plugs	Refer to DC output plugs	**1%**
9	108 V	117.6 V	16 A	1280ma	4000ma	Refer to AC input plugs	Refer to DC output plugs	**1%**
10	120 V	134.4 V	15 A	1200ma	3750ma	Refer to AC input plugs	Refer to DC output plugs	**1%**