



ABFYY1000L Series Battery Charger



1000W

Output power: 1000W
 Output circuit: Single output
 Output voltage: 12 - 72V
 Optional: 5.0V standby voltage
 Enable Control Optional: 5.0V/12V

Product Features

- 1000W
- Aluminum case
- Circuit topology: Resonance LLC Half-bridge type , Optional function: MCU, CAN Communicate etc
- MCU and intelligent PFM 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

Environmental Specifications

Operating Temperature	-20°C - +40°C
Storage Temperature	-40°C - +70°C
Operating Humidity	5%-95%RH Non-condensing
Fan Noise	W 50dB
Altitude	2000m
Anti-vibration	5mm 巧 0Hz/600s

Safety Certificate

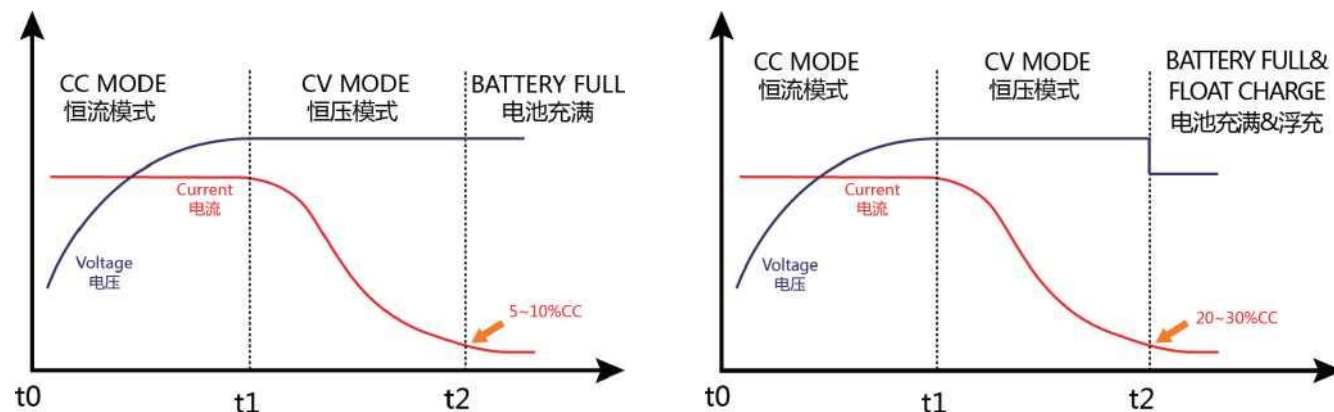
UL
 CSA
 VDE
 CQC
 CB Scheme

Electrical Specifications

	Input
Input range	AC:100-240Vac (automatically)
Frequency	50-60 HZ
Input Fuse	20A
Power factor	0.95
Input max power	1087W
Efficiency	92% (typical value)
Leakage Current	W 0.75mA

Isolation Input to output: 3000Vac 50Hz 1 minute W 10mA
 Input to case : 1500Vac 50Hz 1 minute W 10mA
 Output to case: DC500V 50MQ Min

Charging curve



Electrical Specifications

	Output	
Rated output	Refer to output reference	
Voltage setting accuracy	±1%	100-240Vac (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 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 self- recovery / output fuse blown

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	50 A	4000ma	12500ma	Refer to AC input plugs	Refer to DC output plugs	1%
2	24 V	29.4 V	33 A	2640ma	8250ma	Refer to AC input plugs	Refer to DC output plugs	1%
3	36 V	43.8 V	22 A	1760ma	5500ma	Refer to AC input plugs	Refer to DC output plugs	1%
4	48 V	58.8 V	16 A	1280ma	4000ma	Refer to AC input plugs	Refer to DC output plugs	1%
5	60 V	67.2 V	13 A	1040ma	3250ma	Refer to AC input plugs	Refer to DC output plugs	1%
6	72 V	87.6 V	11 A	880ma	2750ma	Refer to AC input plugs	Refer to DC output plugs	1%