

ABFYY240L Series Battery Charger



240W

Output power: 240W
 Output circuit: Single output
 Output voltage: 12 - 72V
 Optional: 5.0V/12V standby voltage
 Enable Control Optional: 5.0V/12V

Electrical Specifications

	Input
Input range	AC:100-240Vac (automatically)
Frequency	50-60HZ
Input Fuse	6.3A
Power Factor	0.98
Input maximum power	270W
Efficiency	> 89%
Leakage current	W 0.75mA

Isolation Input—Output:3000Vac 50Hz 1 minute W 10mA
 Input—Case: 1500Vac 50Hz 1 minute W 10mA
 Output—ase: DC500V 50MQ Min.

Product Features

- 240W
- Economy
- Circuit topology: Resonance LLC Half-bridge type
- Dual-color LED charging status
- Intelligent PFM IC control, full automatic transition of CC, CV and Float/Cut off, meet the demands for different charging 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

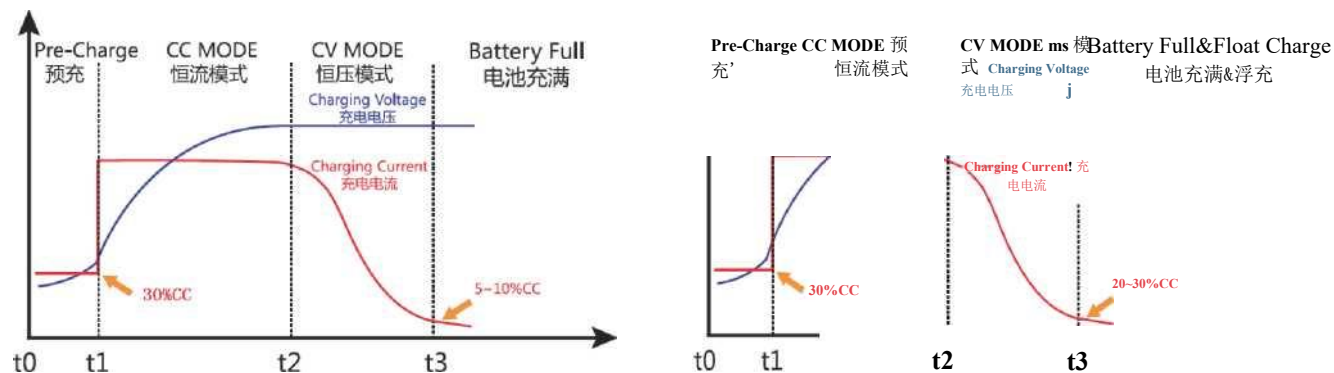
Environmental Specifications

Operating Temperature	-20°C - +40°C
Storage Temperature	-40°C - +70°C
Operating Humidity	5% - 95%RH Non-condensing
Fan Noise	W40dB
Altitude	2000m
Anti-vibration	5mm/50Hz/600S

Safety Certificate

UL
 CSA
 VDE
 CE
 CB
 EN60950-1
 IEC60950-1:2005+A1 +A2

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	Current-limiting mode with zero voltage
Output isolation	-	Safety standards
Output Over Current Protection (OCP)	-	When the charger output current exceeds the max 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
				Li (CC8%)	Lead-acid (CC25%)			
1	12 V	14.6 V	10 A	800ma	2500ma	Refer to AC input plugs	Refer to DC output plugs	1%
2	24 V	29.4 V	8 A	640ma	2000ma	Refer to AC input plugs	Refer to DC output plugs	1%
3	36 V	43.8 V	5 A	400ma	1250ma	Refer to AC input plugs	Refer to DC output plugs	1%
4	48 V	58.8 V	4 A	320ma	1000ma	Refer to AC input plugs	Refer to DC output plugs	1%
5	60 V	67.2 V	3 A	240ma	750ma	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%