ABFYY300LP Series Battery Charger

300W

Output power: 300W
Output circuit: Single output
Output voltage: 12 - 72V
Optional: 5.0V/12V standby voltage
Enable Control Optional: 5.0V/12V

Product Features

- 300W
- Economy
- Circuit topology: Resonance LLC Half-bridge type
- Dual-color LED charging status
- Optional function: MCU, CAN Communicate etc
- Waterproof Rating IP65
- 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

Electrical Specifications

	Input
Input range	AC:100-240Vac (automatically)
Frequency	50-60HZ
Input Fuse	8A
Power Factor	0.99
Input max power	327W
Efficiency	> 92%
Leakage current	W 0.75mA
Isolation	Input —Output:3000Vac 50Hz 1 minute W 10mA Input—Case: 1500Vac 50Hz 1 minute W 10mA Output—Case: DC500V 50MQ Min

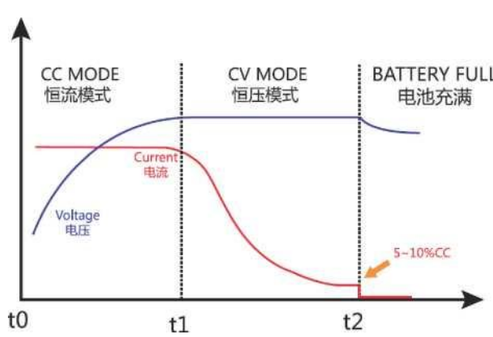
Environmental Specifications

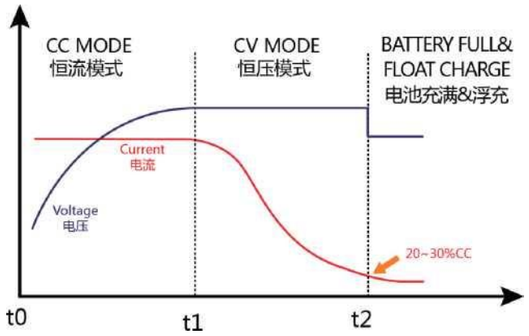
Operating Temperature	-20°C - +40°C
Storage Temperature	-40°C - +70°C
Operating Humidity	5% - 95%RH Non-condensing
Altitude	2000m
Anti-vibration	5mm/50Hz/600s

Safety Certificate

CE-LVD	EN60335
CE	EN55014
CB	IEC60335
C-TUV-US	UL1012 Part 15B

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,voltage nears 0V
Output isolation		Safety standards
Output Over Current Protection (OCP)	Disconnected the output	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 0V.、
Output Over Voltage Protection (OVP)	PWM off	The charger enters the standby state protection, when output voltage exceeds the maximum 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; LED flashing alarm

Output Reference

Model	Nominal Voltage	Constant Voltage	Constant Current	Switching Current		AC Input Plugs (optional)	DC Output Plugs (optional)	Adjustment Rate/Load Adjustment Rate
				(CC8%)	Lead-acid (CC25%)			
1	12 V	14.6 V	17A	1360ma	4250ma	Refer to AC input plugs	Refer to DC output plugs	1%
2	24 V	29.4 V	10 A	800ma	2500ma	Refer to AC input plugs	Refer to DC output plugs	1%
3	36 V	43.8 V	7A	560ma	1750ma	Refer to AC input plugs	Refer to DC output plugs	1%
4	48 V	58.8 V	5 A	400ma	1250ma	Refer to AC input plugs	Refer to DC output plugs	1%
5	60 V	67.2 V	4 A	320ma	10OOma	Refer to AC input plugs	Refer to DC output plugs	1%
6	72 V	87.6 V	3 A	240ma	750ma	Refer to AC input	Refer to DC	1%