



# ABFYY900L Series Battery Charger



## 900W

Output power: 900W  
 Output circuit: Single output  
 Output voltage: 12 - 84V  
 Optional: 5.0V standby voltage  
 Enable Control Optional: 5.0V/12V

## Product Features

- 900W
- 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/50Hz/600s

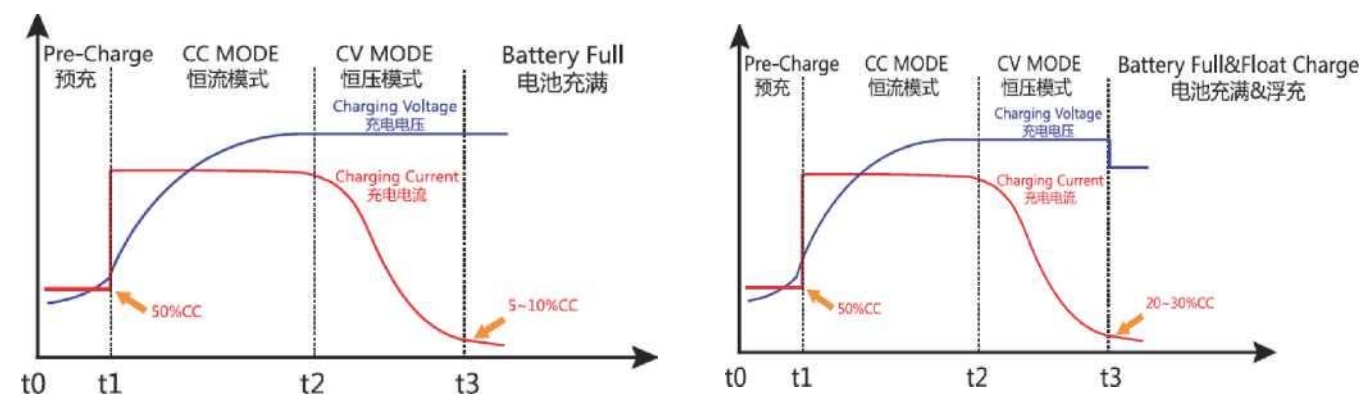
## Safety Certificate

UL  
 CSA  
 VDE  
 CQC  
 CB Scheme

## Electrical Specifications

Input	
Input range	AC: 100-240Vac( automatically)
Frequency	50-60HZ
Input Fuse	15A
Power factor	0.99
Input max power	979W
Efficiency	92% (typical value)
Leakage Current	<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)
Output voltage overshoot		Overshoot/undershoot control in a reasonable range
Short Circuit Protection (SCP)	Protect the power from damage	Relay off, no output
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
				Li (CC8%)	Lead-acid (CC25%)			
1	12 V	14.6 V	40 A	3200ma	10000ma	Refer to AC input plugs	Refer to DC output plugs	1%
2	24 V	29.4 V	30 A	2400ma	7500ma	Refer to AC input plugs	Refer to DC output plugs	1%
3	36 V	43.8 V	20 A	1600ma	5000ma	Refer to AC input plugs	Refer to DC output plugs	1%
4	48 V	58.8 V	15 A	1200ma	3750ma	Refer to AC input plugs	Refer to DC output plugs	1%
5	60 V	67.2 V	12 A	960ma	3000ma	Refer to AC input plugs	Refer to DC output plugs	1%
6	72 V	87.6 V	10 A	800ma	2500ma	Refer to AC input plugs	Refer to DC output plugs	1%