

ABFYY150F Series Battery Charger



150W

Output power: 150W
 Output circuit: Single output
 Output voltage: 12 - 48V
 Enable Control Optional: 12V

Product Features

- 150W
- Active PFC power factor correction circuit
- Medical grade charging power supply, low ripple, low leakage current
- Sealed dust prevention
- Protections: Over Voltage, Over Current, Over temperature, Short Circuit, Reverse Polarity, shut off or trickle and anti-reverse charge
- Silent design without cooling fan
- Aluminum case, Robust, Elegant and Reliable

Electrical Specifications

Input	
Input range	AC:100-240Vac
Frequency	50-60HZ
Input Fuse	4A
Input maximum power	173W
Power Factor	N 0.95 (220Vac, Input full load)
Efficiency	87%
Leakage Current	EC<10mA TC<500uA

Isolation	
Input to output: 3000Vac 50Hz 1 minute W	10mA
Input to case : 1500Vac 50Hz 1 minute W	10mA
Output to case: 500Vac 50Hz 1 minute W	10mA

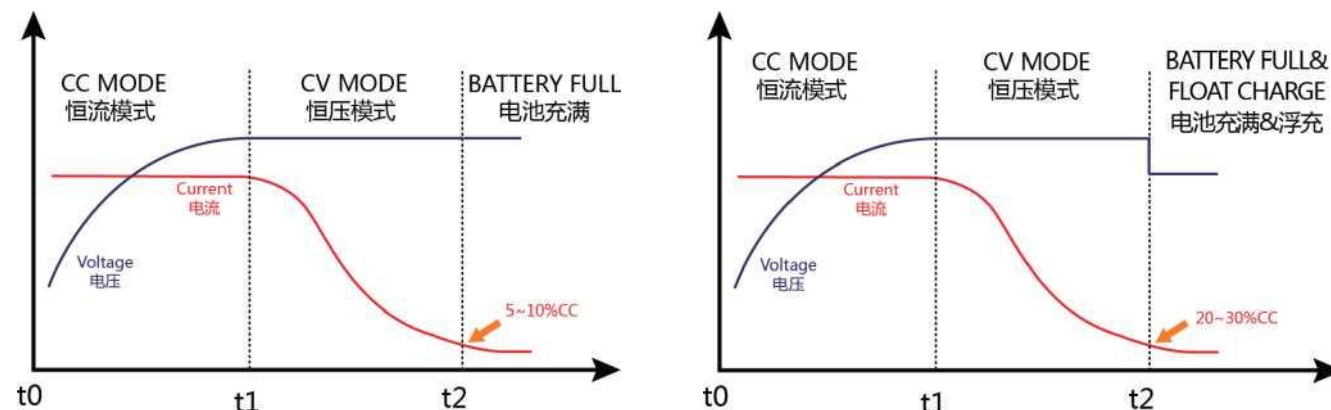
Environmental Specifications

Operating Temperature	-20°C - +40°C
Storage Temperature	-40°C - +70°C
Operating Humidity	5% - 95% RH Non-condensing
Fan Noise	W OdB
Altitude	2000M
Vibration	5mm/50Hz/600S

Safety Certificate

EMC	EN 55011:2009+A1:2010
CE	EN 60601-1-2:2015 EN 60601-3-2:2014 EN 60601-3-3:2013

Charging curve



Electrical Specifications

Output		
Rated output	Refer to output reference	
Voltage setting accuracy	±1%	100-240Vac input
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 is max current, voltage is 0V
Output isolation	-	Safety standards for medical use
Output Over Current Protection (OCP)	-	Current is limited to max charging current, voltage is 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	When the internal temperature over 85°C , stop working
Reverse Polarity Protection	Charger is not damaged	Relay does not suck, the charging circuit is disconnected.

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	5 A	400ma	1250ma	Refer to AC input plugs	Refer to DC output plugs	1%
3	36 V	43.8 V	3 A	240ma	750ma	Refer to AC input plugs	Refer to DC output plugs	1%
4	48 V	58.8 V	3 A	240ma	750ma	Refer to AC input plugs	Refer to DC output plugs	1%