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# BATTERY CHARGER

Over voltage  
protection



Low voltage  
protection



Over load  
protection



Over temperature  
protection





# 10A Battery Charger



## Technical parameters

Battery Charger Model	AC: 110V-12V10A	AC: 110V-24V10A	AC: 110V-48V10A
Input Voltage	110Vac±15%	110Vac±15%	110Vac±15%
Input Frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
Output Voltage	12V	24V	48V
Max.Output Voltage	14.5V±0.5V	29V±0.5V	58V±0.5V
Floating Voltage	13.7V±0.5V	27.5V±0.5V	55V±0.5V
Constant Charging(100% Mode)	10A±2A	10A±2A	10A±2A(≥100AH)
Floating Charging(100% Mode)	2A±1A	2A±1A	3A±0.5A
Constant Charging(50% Mode)	/	/	5A±2A(≤50AH)
Floating Charging(50% Mode)	/	/	1.5A±0.5A
Conversion Efficiency	≥83%	≥83%	≥83%
Charging Indication	Red light on when charging	Red light on when charging	Red light on when charging
Fully Charged Indication	Green light on	Green light on	Green light on
Reverse Connection Protection	YES	YES	YES
Fan Operation Mode	Fan start to work above 40°C	Fan start to work above 40°C	Fan start to work above 40°C

Battery Charger Model	AC: 220V-12V10A	AC: 220V-24V10A	AC: 220V-48V10A
Input Voltage	220Vac±15%	220Vac±15%	220Vac±15%
Input Frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
Output Voltage	12V	24V	48V
Max.Output Voltage	14.5V±0.5V	29V±0.5V	58V±0.5V
Floating Voltage	13.7V±0.5V	27.5V±0.5V	55V±0.5V
Constant Charging(100% Mode)	10A±2A	10A±2A	10A±2A(≥100AH)
Floating Charging(100% Mode)	2A±1A	2A±1A	5A±2A(≤50AH)
Constant Charging(50% Mode)	/	/	3A±0.5A
Floating Charging(50% Mode)	/	/	1.5A±0.5A
Conversion Efficiency	≥83%	≥83%	≥83%
Charging Indication	Red light on when charging	Red light on when charging	Red light on when charging
Fully Charged Indication	Green light on	Green light on	Green light on
Reverse Connection Protection	YES	YES	YES
Fan Operation Mode	Fan start to work above 40°C	Fan start to work above 40°C	Fan start to work above 40°C

# 15A Battery Charger



## Technical parameters

Battery Charger Model	AC: 110V-12V15A	AC: 110V-24V15A	AC: 110V-48V15A
Input Voltage	110Vac±15%	110Vac±15%	110Vac±15%
Input Frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
Output Voltage	12V	24V	48V
Max.Output Voltage	14.5V±0.5V	29V±0.5V	58V±0.5V
Floating Voltage	13.7V±0.5V	27.5V±0.5V	55V±0.5V
Constant Charging(100% Mode)	15A±2A	15A±2A(≥100AH)	15A±2A(≥100AH)
Floating Charging(100% Mode)	3A±1A	5A±1A	4A±0.5A
Constant Charging(50% Mode)	/	7A±2A(≤50AH)	7.5A±2A(≤50AH)
Floating Charging(50% Mode)	/	2A±1A	2A±0.5A
Conversion Efficiency	≥83%	≥83%	≥83%
Charging Indication	Red light on when charging	Red light on when charging	Red light on when charging
Fully Charged Indication	Green light on	Green light on	Green light on
Reverse Connection Protection	YES	YES	YES
Fan Operation Mode	Fan start to work above 40°C	Fan start to work above 40°C	Fan start to work above 40°C

Battery Charger Model	AC: 220V-12V15A	AC: 220V-24V15A	AC: 220V-48V15A
Input Voltage	220Vac±15%	220Vac±15%	220Vac±15%
Input Frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
Output Voltage	12V	24V	48V
Max.Output Voltage	14.5V±0.5V	29V±0.5V	58V±0.5V
Floating Voltage	13.7V±0.5V	27.5V±0.5V	55V±0.5V
Constant Charging(100% Mode)	15A±2A	15A±2A(≥100AH)	15A±2A(≥100AH)
Floating Charging(100% Mode)	3A±1A	8A±2A(≤50AH)	7.5A±2A(≤50AH)
Constant Charging(50% Mode)	/	5A±1A	4A±0.5A
Floating Charging(50% Mode)	/	2.5A±1A	2A±0.5A
Conversion Efficiency	≥83%	≥83%	≥83%
Charging Indication	Red light on when charging	Red light on when charging	Red light on when charging
Fully Charged Indication	Green light on	Green light on	Green light on
Reverse Connection Protection	YES	YES	YES
Fan Operation Mode	Fan start to work above 40°C	Fan start to work above 40°C	Fan start to work above 40°C

# 20A Battery Charger



## Technical parameters

Battery Charger Model	AC: 110V-12V20A	AC: 110V-24V20A
Input Voltage	110Vac±15%	110Vac±15%
Input Frequency	50Hz/60Hz	50Hz/60Hz
Output Voltage	12V	24V
Max.Output Voltage	14.5V±0.5V	29V±0.5V
Floating Voltage	13.7V±0.5V	27.5V±0.5V
Constant Charging(100% Mode)	20A±2A	20A±2A(≥100AH)
Floating Charging(100% Mode)	5A±1A	6A±1A
Constant Charging(50% Mode)	/	10A±2A(≤50AH)
Floating Charging(50% Mode)	/	3A±1A
Conversion Efficiency	≥83%	≥83%
Charging Indication	Red light on when charging	Red light on when charging
Fully Charged Indication	Green light on	Green light on
Reverse Connection Protection	YES	YES
Fan Operation Mode	Fan start to work above 40°C	Fan start to work above 40°C

Battery Charger Model	AC: 220V-12V20A	AC: 220V-24V20A
Input Voltage	220Vac±15%	220Vac±15%
Input Frequency	50Hz/60Hz	50Hz/60Hz
Output Voltage	12V	24V
Max.Output Voltage	14.5V±0.5V	29V±0.5V
Floating Voltage	13.7V±0.5V	27.5V±0.5V
Constant Charging(100% Mode)	20A±2A	20A±2A(≥100AH)
Floating Charging(100% Mode)	5A±1A	10A±2A(≤50AH)
Constant Charging(50% Mode)	/	6A±1A
Floating Charging(50% Mode)	/	3A±1A
Conversion Efficiency	≥83%	≥83%
Charging Indication	Red light on when charging	Red light on when charging
Fully Charged Indication	Green light on	Green light on
Reverse Connection Protection	YES	YES
Fan Operation Mode	Fan start to work above 40°C	Fan start to work above 40°C



# 30A Battery Charger



## Technical parameters

Battery Charger Model	AC: 110V-12V30A	AC: 110V-24V30A
Input Voltage	110Vac±15%	110Vac±15%
Input Frequency	50Hz/60Hz	50Hz/60Hz
Output Voltage	12V	24V
Max.Output Voltage	14.5V±0.5V	29V±0.5V
Floating Voltage	13.7V±0.5V	27.5V±0.5V
Constant Charging(100% Mode)	30A±2A(≥150AH)	30A±2A(≥100AH)
Floating Charging(100% Mode)	7A±2A	8A±1A
Constant Charging(50% Mode)	15A±2A(≤100AH)	15A±2A(≤50AH)
Floating Charging(50% Mode)	3A±2A	4A±1A
Conversion Efficiency	≥83%	≥83%
Charging Indication	Red light on when charging	Red light on when charging
Fully Charged Indication	Green light on	Green light on
Reverse Connection Protection	YES	YES
Fan Operation Mode	Fan start to work above 40°C	Fan start to work above 40°C

Battery Charger Model	AC:220V-12V30A	AC: 220V-24V30A
Input Voltage	220Vac±15%	220Vac±15%
Input Frequency	50Hz/60Hz	50Hz/60Hz
Output Voltage	12V	24V
Max.Output Voltage	14.5V±0.5V	29V±0.5V
Floating Voltage	13.7V±0.5V	27.5V±0.5V
Constant Charging(100% Mode)	30A±2A(≥150AH)	30A±2A(≥100AH)
Floating Charging(100% Mode)	15A±2A(≤100AH)	15A±2A(≤50AH)
Constant Charging(50% Mode)	7A±2A	8A±1A
Floating Charging(50% Mode)	4A±2A	4A±1A
Conversion Efficiency	≥83%	≥83%
Charging Indication	Red light on when charging	Red light on when charging
Fully Charged Indication	Green light on	Green light on
Reverse Connection Protection	YES	YES
Fan Operation Mode	Fan start to work above 40°C	Fan start to work above 40°C

# 40A Battery Charger



## Technical parameters

Battery Charger Model	AC: 110V-12V40A	AC: 220V-12V40A
Input Voltage	220Vac±15%	220Vac±15%
Input Frequency	50Hz/60Hz	50Hz/60Hz
Output Voltage	12V	12V
Max.Output Voltage	14.5V±0.5V	14.5V±0.5V
Floating Voltage	13.7V±0.5V	13.7V±0.5V
Constant Charging(100% Mode)	40A±2A	40A±2A≥100AH
Floating Charging(100% Mode)	12A±1A	12A±1A
Constant Charging(50% Mode)	/	20A±2A(≤50AH)
Floating Charging(50% Mode)	/	6A±1A
Conversion Efficiency	≥83%	≥83%
Charging Indication	Red light on when charging	Red light on when charging
Fully Charged Indication	Green light on	Green light on
Reverse Connection Protection	YES	YES
Fan Operation Mode	Fan start to work above 40°C	Fan start to work above 40°C



# 50A Battery Charger



## Technical parameters

Battery Charger Model	AC: 110V-12V50A	AC: 220V-12V50A
Input Voltage	220Vac±15%	220Vac±15%
Input Frequency	50Hz/60Hz	50Hz/60Hz
Output Voltage	12V	12V
Max.Output Voltage	14.5V±0.5V	14.5V±0.5V
Floating Voltage	13.7V±0.5V	13.7V±0.5V
Constant Charging(100% Mode)	30A±2A(≥150AH)	50A±2A(≥150AH)
Floating Charging(100% Mode)	25A±2A	25A±2A(≤100AH)
Constant Charging(50% Mode)	15A±2A(≤100AH)	15A±2A
Floating Charging(50% Mode)	7.5A±2A	7.5A±2A
Conversion Efficiency	≥83%	≥83%
Charging Indication	Red light on when charging	Red light on when charging
Fully Charged Indication	Green light on	Green light on
Reverse Connection Protection	YES	YES
Fan Operation Mode	Fan start to work above 40°C	Fan start to work above 40°C