




▶ Lithium-Ion batteries

Longer Run
Times **40%**

DESIGNED TO KEEP YOU RUNNING

BSLBATT

Lithium forklift battery

 Lithium Is All We Do

 50+ Compatible Forklift Brands

Tried, Tested, & Trusted Lithium Ion Batteries For Forklifts And Lift Trucks.
Wi-Fi Capabilities. Fast Charge. Reduce Your Total Cost Of Ownership.

Select Your Battery Today.




The One Battery Charger To Satisfy Every Need





Increase Your Efficiency and Return on Investment **Waterproof** And Tamperproof.


Perfect for industrial vehicles, high-powered tools, daily use vehicles and more.


Ultra-compact, rugged, tamperproof, and waterproof, the industrial charger can be mounted directly onto a variety of surfaces or equipment. Features spark proof technology and reverse polarity protection. Charges 2X faster than ordinary chargers. Stay connected 24/7 with zero overcharge.


- 


Firewall.
Multi-level safety barrier prevents unsafe and abnormal conditions.
- 


Energy Save.
Minimizes energy consumption when full power is not needed.
- 


Recovery.
Applies a high-voltage pulse charge when low-voltage, sulfation, or lost capacity is detected.
- 

Optimization.
Stabilizes internal battery chemistry for increased performance and longevity.
- 

Interactive.
Alters the charging process based on organic battery feedback
- 

Rugged.
Dirt, water, UV, impact and crush resistant.
- 

Maintenance
Keeps the battery fully charged without over-charging, indefinitely.
- 

Safe
Protects against reverse polarity, sparks, over-charging, overcurrent, open-circuits and overheating.
- 

Opportunity
Designed to rapidly charge batteries in applications where charging is intermittent between use.

Designed To keep You Running

Product Introduction



Soft start



Safety protection



Temperature protection



Auto charging



Germany technology



Fault detect



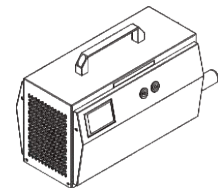
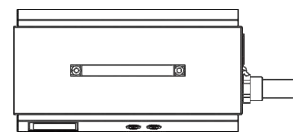
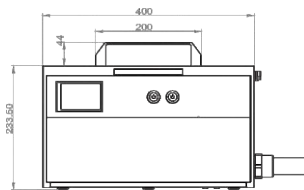
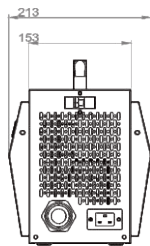
CE certification



UL certification

Portable Series | **24V-48V**
50-100A

Application: G/B standard, American standard, single: phase 220V, portable charging design Lithium forklift, lithium sweeper, lithium sightseeing car, lithium electric flat car, lithium ship, lithium pallet truck, lithium AGV, lithium aerial vehicle.



Excellent electrical properties

Adopts PFC+LLC soft switching technology, high input power factor, low current harmonics, small voltage and current ripple, high conversion efficiency and module power with high density.

User-friendly and convenient UI interface

The ergonomic appearance design is equipped with a user-friendly and convenient UI interface. The charging information status display, charging operation and setting functions are realized through the LCD touch screen + LED + button man-machine interface.

Wide input voltage range

Input voltage is AC 90V~265V, which can provide battery with stable and reliable temperature control function during charging under the unstable power supply environment of the battery.

Complete protection and self diagnosis functions

The product has the functions of overcharge protection, overvoltage protection, overcurrent protection, overtemperature protection, overtemperature protection for connector, input phase loss, input high and low voltage protection, leakage protection abnormal protection, etc, and realizes self-diagnosis and faults Display.

Fast and safe and smart charging

With lithium battery BMS CAN communication, to realize intelligent management of battery charging and fast charging and long lithium battery life through BMS to ensure lithium battery with fast stable and safe.

Modular design

Adopts design of hot-swappable modular installation, simplifies the maintenance and replacement of product components, reduces the technical requirements for users, reduces average maintenance time

Technical data

Model	24V 50A	24V 100A	48V 50A
DC Output			
Rated Output Power	1.2KW	2.4KW	2.4KW
Rated Output Current	50A	100A	50A
Output Voltage Range	16VDC~32VDC	16VDC~32VDC	18VDC~65VDC
Current Adjustable Range	5A~50A	5A~100A	5A~50A
Ripple Wave	≤ 1%		
Stable Voltage Precision	≤ ± 0.5%		
Efficiency	92%		
Protection	Short circuit, Overcurrent, Overvoltage, Reverse Connection and Over-Temperature Protection		
AC Input			
Rated Input Voltage Degree	Single phase 220VAC		
Input Voltage Range	90VAC~265VAC	90VAC~265VAC	90VAC~265VAC
Input Current Range	<9A	<18A	<18A
Frequency	50Hz~60Hz		
(PF) Power Factor	≥ 0.99		
(HDI) Current distortion	≤ 5%		
Input Protection	Overvoltage, Under-voltage, overcurrent and Lack of phase Protection		
Working Environment			
Working Environment Temperature	-20℃ ~45℃ work normally, 45℃ ~65℃ reduce output, over 65℃ Shutdown		
Storage Temperature	-40℃ ~75℃		
Relative Humidity	0~95%		
Altitude	≤ 2000m full load output, 2000~3000m according to the 5.11.2 rules in GB/T3859.2-1993, derating output		
Product Safety And Reliability			
Insulation Strength	IN-OUT : 2800VDC/10mA/1Min IN-SHEL : 2800VDC/10mA/1Min OUT-SHELL : 500VDC/10mA/1Min		
	IN-OUT: DC500V>10MΩ IN-SHEL: DC500V>10MΩ OUT-SHELL: DC500V>10MΩ		
Dimensions And Weight			
Outline Dimensions	400 (D) ×213 (W) ×278 (H)		
Net Weight	13.5Kg		
Protection Class	≥ IP20		
Others			
Output Connector	Rema gun/GB/Anderson interface		
1/o line length	About 3meters		
Heat Dissipation	Forced Air-cooling		

Product Introduction



Soft start



Safety protection



Temperature protection



Auto charging



Germany technology



Fault detect



CE certification

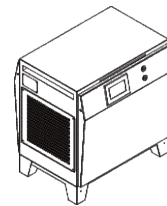
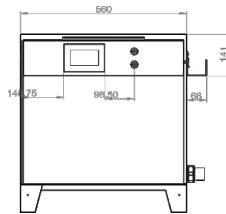
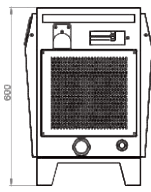


UL certification

24V Series

150-200A

Application: G/B standard, American standard, single: phase 220V, portable charging design. Lithium forklift, lithium sweeper, lithium sightseeing car, lithium electric flat car, lithium ship, lithium pallet truck, lithium AGV, lithium aerial vehicle.



Excellent electrical properties

Adopts PFC+LLC soft switching technology, high input power factor, low current harmonics, small voltage and current ripple, high conversion efficiency and module power with high density.

User-friendly and convenient UI interface

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Wide input voltage range

Input voltage is AC 90V~265V, which can provide battery with stable and reliable temperature control function during charging under the unstable power supply environment of the battery.

Complete protection and self diagnosis functions

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Modular design

Adopts design of hot-swappable modular installation, simplifies the maintenance and replacement of product components, reduces the technical requirements for users, reduces average maintenance time

Product Introduction

Technical data

Model	24V 150A	24V 200A
DC Output		
Rated Output Power	3.6KW	4.5KW
Rated Output Current	150A	200A
Output Voltage Range	16VDC~32VDC	16VDC~32VDC
Current Adjustable Range	5A~150A	5A~200A
Ripple Wave	≤ 1%	
Stable Voltage Precision	≤ ± 0.5%	
Efficiency	92%	
Protection	Short circuit, Overcurrent, Overvoltage, Reverse Connection and Over-Temperature Protection	
AC Input		
Rated Input Voltage Degree	Three phase five-wire 380VAC	
Input Voltage Range	320VAC~440VAC	
Input Current Range	<9.5A	<12.5A
Frequency	50Hz~60Hz	
(PF) Power Factor	≥ 0.99	
(HDI) Current distortion	≤ 5%	
Input Protection	Overvoltage, Under-voltage, overcurrent and Lack of phase Protection	
Working Environment		
Working Environment Temperature	-20℃ ~45℃ work normally, 45℃ ~65℃ reduce output, over 65℃ Shutdown	
Storage Temperature	-40℃ ~75℃	
Relative Humidity	0~95%	
Altitude	≤ 2000m full load output, 2000~3000m according to the 5.11.2 rules in GB/T3859.2-1993, derating output	
Product Safety And Reliability		
Insulation Strength	IN-OUT : 2800VDC/10mA/1Min IN-SHEL : 2800VDC/10mA/1Min OUT-SHELL : 500VDC/10mA/1Min	
	IN-OUT: DC500V>10MΩ IN-SHEL: DC500V>10MΩ OUT-SHELL: DC500V>10MΩ	
Dimensions And Weight		
Outline Dimensions	600 (H) ×560 (W) ×430 (D)	
Net Weight	55Kg	55Kg
Protection Class	≥ IP20	
Others		
Output Connector	Rema gun	
1/o line length	About 3meters	
Heat Dissipation	Forced Air-cooling	

Product Introduction



48V Series



Soft start



Safety protection



Temperature protection



Auto charging



Germany technology



Fault detect

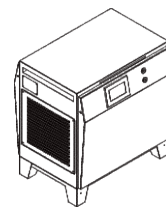
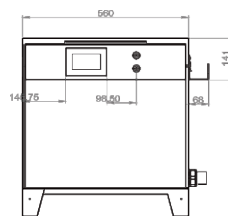
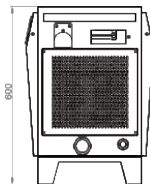


CE certification



UL certification

Application: G/B standard, American standard, single: phase 220V, portable charging design, Lithium forklift, lithium sweeper, lithium sightseeing car, lithium electric flat car, lithium ship, lithium pallet truck, lithium AGV, lithium aerial vehicle.



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Input voltage is AC90V~265V, which can provide battery with stable and reliable temperature control function during charging under the unstable power supply environment of the battery.

Wide Output voltage range

It can adapt to the special number of cells connected in series, and also adapt to special emergency situations, 48V charger suitable for 24V lithium batteries.

Fast and safe and smart charging

With lithium battery BMS CAN communication, to realize intelligent management of battery charging and fast charging and long lithium battery life through BMS to ensure lithium battery with fast stable and safe.

User-friendly and convenient UI interface

The ergonomic appearance design is equipped with a user-friendly and convenient UI interface. The charging information status display, charging operation and setting functions are realized through the LCD touch screen + LED + button man-machine interface.

With Capacity expansion and parallel redundant operation

In the demand of capacity expansion, we can adopt the capacity expansion schemes such as "Dual charger charging single Forkli", "Single charger with dual guns charging single Forkli", "Single charger with dual guns charging dual Forkli independently".

Complete protection and self diagnosis functions

The product has the functions of overcharge protection, overvoltage protection, overcurrent protection, overtemperature protection, overtemperature protection for connector, input phase loss, input high and low voltage protection, leakage protection abnormal protection, etc, and realizes self-diagnosis and faults Display.

Modular design

Adopts design of hot-swappable modular installation, simplifies the maintenance and replacement of product components, reduces the technical requirements for users, reduces average maintenance time

Technical data

Model	48V 100A	48V 150 A
Rated Output Power	4.8KW	7.2KW
Rated Output Current	100A	150A
Output Voltage Range	18VDC~65VDC	18VDC~60VDC
Current Adjustable Range	5A~100A	5A~150A
Ripple Wave	≤ 1%	
Stable Voltage Precision	≤ ± 0.5%	
Efficiency	92%	
Protection	Short circuit, Overcurrent, Overvoltage, Reverse Connection and Over-Temperature Protection	
Rated Input Voltage Degree	Three phase five-wire 380VAC	
Input Voltage Range	320VAC~440VAC	
Input Current Range	<13A	<18A
Frequency	50Hz~60Hz	
(PF) Power Factor	≥ 0.99	
(HDI) Current distortion	≤ 5%	
Input Protection	Overvoltage, Under-voltage, overcurrent and Lack of phase Protection	
Working Environment Temperature	-20℃ ~45℃ work normally, 45℃ ~65℃ reduce output, over 65℃ Shutdown	
Storage Temperature	-40℃ ~75℃	
Relative Humidity	0~95%	
Altitude	≤ 2000m full load output, 2000~3000m according to the 5.11.2 rules in GB/T3859.2-1993, derating output	
Insulation Strength	IN-OUT : 2800VDC/10mA/1Min IN-SHEL : 2800VDC/10mA/1Min OUT-SHELL : 2800VDC/10mA/1Min IN-OUT: DC500V>10MΩ IN-SHEL: DC500V>10MΩ OUT-SHELL: DC500V>10MΩ	
Outline Dimensions	600 (H) ×560 (W) ×430 (D)	
Net Weight	55Kg	55Kg
Protection Class	≥ IP20	
Output Connector	Rema gun/GB	
1/o line length	About 3meters	
Heat Dissipation	Forced Air-cooling	

Product Introduction



48V Series



Soft start



Safety protection



Temperature protection



Auto charging



Germany technology



Fault detect

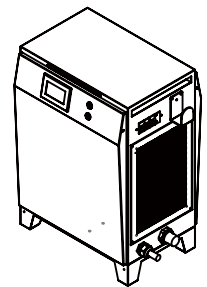
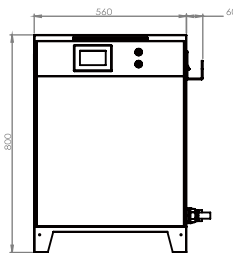
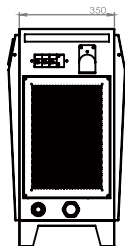
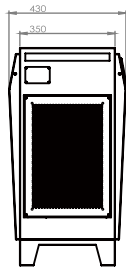


CE certification



UL certification

Application: G/B standard, American standard, single: phase 220V, portable charging design. Lithium forklift, lithium sweeper, lithium sightseeing car, lithium electric flat car, lithium ship, lithium pallet truck, lithium AGV, lithium aerial vehicle.



Excellent electrical properties

Adopts PFC+LLC soft switching technology, high input power factor, low current harmonics, small voltage and current ripple, high conversion efficiency and module power with high density.

Wide input voltage range

Input voltage is AC 90V~265V, which can provide battery with stable and reliable temperature control function during charging under the unstable power supply environment of the battery.

Wide Output voltage range

It can adapt to the special number of cells connected in series, and also adapt to special emergency situations, 48V charger suitable for 24V lithium batteries.

Fast and safe and smart charging

With lithium battery BMS CAN communication, to realize intelligent management of battery charging and fast charging and long lithium battery life through BMS to ensure lithium battery with fast stable and safe.

User-friendly and convenient UI interface

The ergonomic appearance design is equipped with a user-friendly and convenient UI interface. The charging information status display, charging operation and setting functions are realized through the LCD touch screen + LED + button man-machine interface.

With Capacity expansion and parallel redundant operation

In the demand of capacity expansion, we can adopt the capacity expansion schemes such as "Dual charger charging single Forkli", "Single charger with dual guns charging single Forkli", "Single charger with dual guns charging dual Forkli independently".

Complete protection and self diagnosis functions

The product has the functions of overcharge protection, overvoltage protection, overcurrent protection, overtemperature protection, overtemperature protection for connector, input phase loss, input high and low voltage protection, leakage protection abnormal protection, etc, and realizes self-diagnosis and faults Display.

Modular design

Adopts design of hot-swappable modular installation, simplifies the maintenance and replacement of product components, reduces the technical requirements for users, reduces average maintenance time

Technical data

Model	48V 200A	48V 300A
DC Output		
Rated Output Power	9.6KW	14.4KW
Rated Output Current	200A	300A
Output Voltage Range	18VDC~65VDC	18VDC~65VDC
Current Adjustable Range	5A~200A	5A~300A
Ripple Wave	≤ 1%	
Stable Voltage Precision	≤ ± 0.5%	
Efficiency	92%	
Protection	Short circuit, Overcurrent, Overvoltage, Reverse Connection and Over-Temperature Protection	
AC Input		
Rated Input Voltage Degree	Three phase five-wire 380VAC	
Input Voltage Range	320VAC~440VAC	
Input Current Range	<26A	<34A
Frequency	50Hz~60Hz	
(PF) Power Factor	≥ 0.99	
(HDI) Current distortion	≤ 5%	
Input Protection	Overvoltage, Under-voltage, overcurrent and Lack of phase Protection	
Working Environment		
Working Environment Temperature	-20℃ ~45℃ work normally, 45℃ ~65℃ reduce output, over 65℃ Shutdown	
Storage Temperature	-40℃ ~75℃	
Relative Humidity	0~95%	
Altitude	≤ 2000m full load output, 2000~3000m according to the 5.11.2 rules in GB/T3859.2-1993, derating output	
Product Safety And Reliability		
Insulation Strength	IN-OUT : 2800VDC/10mA/1Min IN-SHEL : 2800VDC/10mA/1Min OUT-SHELL : 2800VDC/10mA/1Min	
	IN-OUT: DC500V>10MΩ IN-SHEL: DC500V>10MΩ OUT-SHELL: DC500V>10MΩ	
Dimensions And Weight		
Outline Dimensions	800 (H) ×560 (W) ×430 (D)	
Net Weight	60Kg	70Kg
Protection Class	≥ IP20	
Others		
Output Connector	Rema gun/GB	
1/o line length	About 3meters	
Heat Dissipation	Forced Air-cooling	

Product Introduction



80V Series



Soft start



Safety protection



Temperature protection



Auto charging



Germany technology



Fault detect

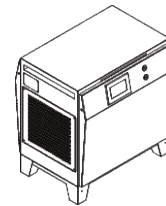
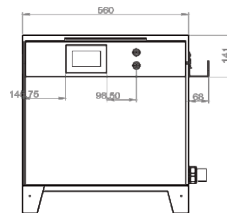
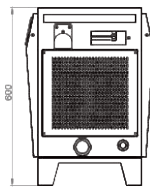


CE certification



UL certification

Application: G/B standard, American standard, single: phase 220V, portable charging design. Lithium forklift, lithium sweeper, lithium sightseeing car, lithium electric flat car, lithium ship, lithium pallet truck, lithium AGV, lithium aerial vehicle.



Excellent electrical properties

Adopts PFC+LLC soft switching technology, high input power factor, low current harmonics, small voltage and current ripple, high conversion efficiency and module power with high density.

Wide input voltage range

Input voltage is AC 90V~265V, which can provide battery with stable and reliable temperature control function during charging under the unstable power supply environment of the battery.

Wide Output voltage range

It can adapt to the special number of cells connected in series, and also adapt to special emergency situations, 48V charger suitable for 24V lithium batteries.

Fast and safe and smart charging

With lithium battery BMS CAN communication, to realize intelligent management of battery charging and fast charging and long lithium battery life through BMS to ensure lithium battery with fast stable and safe.

User-friendly and convenient UI interface

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With Capacity expansion and parallel redundant operation

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Complete protection and self diagnosis functions

The product has the functions of overcharge protection, overvoltage protection, overcurrent protection, overtemperature protection, overtemperature protection for connector, input phase loss, input high and low voltage protection, leakage protection abnormal protection, etc, and realizes self-diagnosis and faults Display.

Modular design

Adopts design of hot-swappable modular installation, simplifies the maintenance and replacement of product components, reduces the technical requirements for users, reduces average maintenance time

Technical data

Model	80V 100A
DC Output	
Rated Output Power	8.0KW
Rated Output Current	100A
Output Voltage Range	30VDC~100VDC
Current Adjustable Range	5A~100A
Ripple Wave	≤ 1%
Stable Voltage Precision	≤ ± 0.5%
Efficiency	92%
Protection	Short circuit, Overcurrent, Overvoltage, Reverse Connection and Over-Temperature Protection
AC Input	
Rated Input Voltage Degree	Three phase five-wire 380VAC
Input Voltage Range	320VAC~440VAC
Input Current Range	<20A
Frequency	50Hz~60Hz
(PF) Power Factor	≥ 0.99
(HDI) Current distortion	≤ 5%
Input Protection	Overvoltage, Under-voltage, overcurrent and Lack of phase Protection
Working Environment	
Working Environment Temperature	-20℃ ~45℃ work normally, 45℃ ~65℃ reduce output, over 65℃ Shutdown
Storage Temperature	-40℃ ~75℃
Relative Humidity	0~95%
Altitude	≤ 2000m full load output, 2000~3000m according to the 5.11.2 rules in GB/T3859.2-1993, derating output
Product Safety And Reliability	
Insulation Strength	IN-OUT : 2800VDC/10mA/1Min IN-SHEL : 2800VDC/10mA/1Min OUT-SHELL : 2800VDC/10mA/1Min
	IN-OUT: DC500V>10MΩ IN-SHEL: DC500V>10MΩ OUT-SHELL: DC500V>10MΩ
Dimensions And Weight	
Outline Dimensions	600 (H) ×560 (W) ×430 (D)
Net Weight	55Kg
Protection Class	≥ IP20
Others	
Output Connector	Rema gun/GB
1/o line length	About 3meters
Heat Dissipation	Forced Air-cooling

Product Introduction



80V Series



Soft start



Safety protection



Temperature protection



Auto charging



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Fault detect

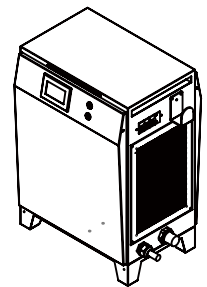
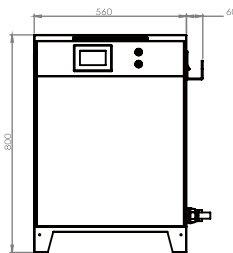
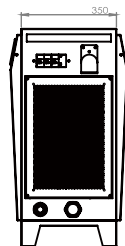
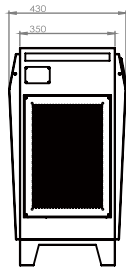


CE certification



UL certification

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Modular design

Adopts design of hot-swappable modular installation, simplifies the maintenance and replacement of product components, reduces the technical requirements for users, reduces average maintenance time

Technical data

Model	80V 150 A	80V 200 A	80V 300A
DC Output			
Rated Output Power	12.0KW	16.0KW	24.0KW
Rated Output Current	150A	200A	300A
Output Voltage Range	30VDC~100VDC	30VDC~100VDC	30VDC~100VDC
Current Adjustable Range	5A~150A	5A~200A	5A~300A
Ripple Wave	≤ 1%		
Stable Voltage Precision	≤ ± 0.5%		
Efficiency	92%		
Protection	Short circuit, Overcurrent, Overvoltage, Reverse Connection and Over-Temperature Protection		
AC Input			
Rated Input Voltage Degree	Three phase five-wire 380VAC		
Input Voltage Range	320VAC~440VAC		
Input Current Range	<30A	<40A	<60A
Frequency	50Hz~60Hz		
(PF) Power Factor	≥ 0.99		
(HDI) Current distortion	≤ 5%		
Input Protection	Overvoltage, Under-voltage, overcurrent and Lack of phase Protection		
Working Environment			
Working Environment Temperature	-20℃ ~45℃ work normally, 45℃ ~65℃ reduce output, over 65℃ Shutdown		
Storage Temperature	-40℃ ~75℃		
Relative Humidity	0~95%		
Altitude	≤ 2000m full load output, 2000~3000m according to the 5.11.2 rules in GB/T3859.2-1993, derating output		
Product Safety And Reliability			
Insulation Strength	IN-OUT : 2800VDC/10mA/1Min IN-SHEL : 2800VDC/10mA/1Min OUT-SHELL : 2800VDC/10mA/1Min		
	IN-OUT: DC500V>10MΩ IN-SHEL: DC500V>10MΩ OUT-SHELL: DC500V>10MΩ		
Dimensions And Weight			
Outline Dimensions	800 (H) ×560 (W) ×430 (D)		
Net Weight	65Kg	65Kg	70Kg
Protection Class	≥ IP20		
Others			
Output Connector	Rema gun/GB		
1/o line length	About 3meters		
Heat Dissipation	Forced Air-cooling		

Product Introduction



150V Series



Soft start



Safety protection



Temperature protection



Auto charging



Germany technology



Fault detect

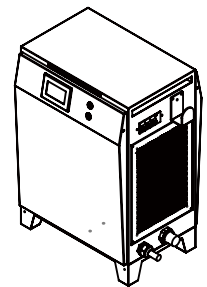
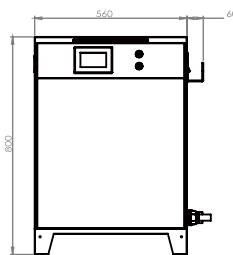
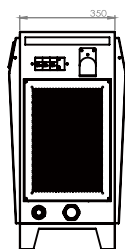
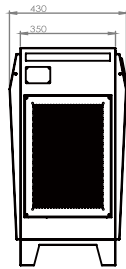


CE certification



UL certification

Application: G/B standard, American standard, single: phase 220V, portable charging design, Lithium forklift, lithium sweeper, lithium sightseeing car, lithium electric flat car, lithium ship, lithium pallet truck, lithium AGV, lithium aerial vehicle.



Excellent electrical properties

Adopts PFC+LLC soft switching technology, high input power factor, low current harmonics, small voltage and current ripple, high conversion efficiency and module power with high density.

Wide input voltage range

Input voltage is AC 90V~265V, which can provide battery with stable and reliable temperature control function during charging under the unstable power supply environment of the battery.

Wide Output voltage range

It can adapt to the special number of cells connected in series, and also adapt to special emergency situations, 48V charger suitable for 24V lithium batteries.

Fast and safe and smart charging

With lithium battery BMS CAN communication, to realize intelligent management of battery charging and fast charging and long lithium battery life through BMS to ensure lithium battery with fast stable and safe.

User-friendly and convenient UI interface

The ergonomic appearance design is equipped with a user-friendly and convenient UI interface. The charging information status display, charging operation and setting functions are realized through the LCD touch screen + LED + button man-machine interface.

With Capacity expansion and parallel redundant operation

In the demand of capacity expansion, we can adopt the capacity expansion schemes such as "Dual charger charging single Forkli", "Single charger with dual guns charging single Forkli", "Single charger with dual guns charging dual Forkli independently".

Complete protection and self diagnosis functions

The product has the functions of overcharge protection, overvoltage protection, overcurrent protection, overtemperature protection, overtemperature protection for connector, input phase loss, input high and low voltage protection, leakage protection abnormal protection, etc, and realizes self-diagnosis and faults Display.


Modular design

Adopts design of hot-swappable modular installation, simplifies the maintenance and replacement of product components, reduces the technical requirements for users, reduces average maintenance time

Technical data

Model	150V 100 A	150V 200 A
DC Output		
Rated Output Power	15.0KW	30.0KW
Rated Output Current	100A	200A
Output Voltage Range	60VDC~200VDC	60VDC~200VDC
Current Adjustable Range	5A~100A	5A~200A
Ripple Wave	≤ 1%	
Stable Voltage Precision	≤ ± 0.5%	
Efficiency	92%	
Protection	Short circuit, Overcurrent, Overvoltage, Reverse Connection and Over-Temperature Protection	
AC Input		
Rated Input Voltage Degree	Three phase five-wire 380VAC	
Input Voltage Range	320VAC~440VAC	
Input Current Range	<34A	<65A
Frequency	50Hz~60Hz	
(PF) Power Factor	≥ 0.99	
(HDI) Current distortion	≤ 5%	
Input Protection	Overvoltage, Under-voltage, overcurrent and Lack of phase Protection	
Working Environment		
Working Environment Temperature	-20℃ ~45℃ work normally, 45℃ ~65℃ reduce output, over 65℃ Shutdown	
Storage Temperature	-40℃ ~75℃	
Relative Humidity	0~95%	
Altitude	≤ 2000m full load output, 2000~3000m according to the 5.11.2 rules in GB/T3859.2-1993, derating output	
Product Safety And Reliability		
Insulation Strength	IN-OUT : 2800VDC/10mA/1Min IN-SHEL : 2800VDC/10mA/1Min OUT-SHELL : 2800VDC/10mA/1Min	
	IN-OUT: DC500V>10MΩ IN-SHEL: DC500V>10MΩ OUT-SHELL: DC500V>10MΩ	
Dimensions And Weight		
Outline Dimensions	800 (H) ×560 (W) ×430 (D)	
Net Weight	60Kg	65Kg
Protection Class	≥ IP20	
Others		
Output Connector	Rema gun/GB	
1/o line length	About 3meters	
Heat Dissipation	Forced Air-cooling	

Product Introduction

Soft start

Safety protection

Temperature protection

Auto charging

Germany technology

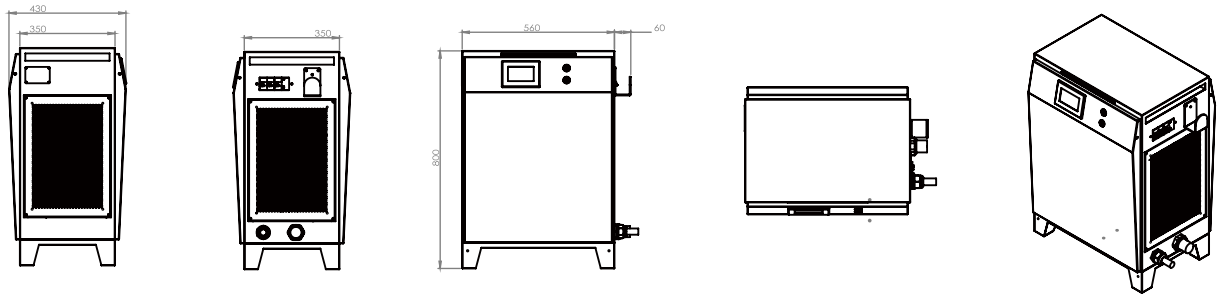
Fault detect

CE certification

UL certification

Double connectors Series

Application: G/B standard, American standard, single: phase 220V, portable charging design, Lithium forklift, lithium sweeper, lithium sightseeing car, lithium electric flat car, lithium ship, lithium pallet truck, lithium AGV, lithium aerial vehicle.



Excellent electrical properties

Adopts PFC+LLC soft switching technology, high input power factor, low current harmonics, small voltage and current ripple, high conversion efficiency and module power with high density.

Wide input voltage range

Input voltage is AC90V~265V, which can provide battery with stable and reliable temperature control function during charging under the unstable power supply environment of the battery.

Wide Output voltage range

It can adapt to the special number of cells connected in series, and also adapt to special emergency situations, 48V charger suitable for 24V lithium batteries.

Fast and safe and smart charging

With lithium battery BMS CAN communication, to realize intelligent management of battery charging and fast charging and long lithium battery life through BMS to ensure lithium battery with fast stable and safe.

User-friendly and convenient UI interface

The ergonomic appearance design is equipped with a user-friendly and convenient UI interface. The charging information status display, charging operation and setting functions are realized through the LCD touch screen + LED + button man-machine interface.

With Capacity expansion and parallel redundant operation

In the demand of capacity expansion, we can adopt the capacity expansion schemes such as "Dual charger charging single Forkli", "Single charger with dual guns charging single Forkli", "Single charger with dual guns charging dual Forkli independently".

Complete protection and self diagnosis functions

The product has the functions of overcharge protection, overvoltage protection, overcurrent protection, overtemperature protection, overtemperature protection for connector, input phase loss, input high and low voltage protection, leakage protection abnormal protection, etc, and realizes self-diagnosis and faults Display.

Modular design

Adopts design of hot-swappable modular installation, simplifies the maintenance and replacement of product components, reduces the technical requirements for users, reduces average maintenance time

Technical data

Model	48V 200A-2Q	80V 200A-2Q
DC Output		
Rated Output Power	19.2KW (two guns)	32.0KW (two guns)
Rated Output Current	200A (single shot)	200A (single shot)
Output Voltage Range	18VDC~65VDC	30VDC~100VDC
Current Adjustable Range	5A~200A (single shot)	5A~200A (single shot)
Ripple Wave	≤ 1%	
Stable Voltage Precision	≤ ± 0.5%	
Efficiency	92%	
Protection	Short circuit, Overcurrent, Overvoltage, Reverse Connection and Over-Temperature Protection	
AC Input		
Rated Input Voltage Degree	Three phase five-wire 380VAC	
Input Voltage Range	320VAC~440VAC	
Input Current Range	<51A	<78A
Frequency	50Hz~60Hz	
(PF) Power Factor	≥ 0.99	
(HDI) Current distortion	≤ 5%	
Input Protection	Overvoltage, Under-voltage, overcurrent and Lack of phase Protection	
Working Environment		
Working Environment Temperature	-20℃ ~45℃ work normally, 45℃ ~65℃ reduce output, over 65℃ Shutdown	
Storage Temperature	-40℃ ~75℃	
Relative Humidity	0~95%	
Altitude	≤ 2000m full load output, 2000~3000m according to the 5.11.2 rules in GB/T3859.2-1993, derating output	
Product Safety And Reliability		
Insulation Strength	IN-OUT : 2800VDC/10mA/1Min IN-SHEL : 2800VDC/10mA/1Min OUT-SHELL : 2800VDC/10mA/1Min	
	IN-OUT: DC500V>10MΩ IN-SHEL: DC500V>10MΩ OUT-SHELL: DC500V>10MΩ	
Dimensions And Weight		
Outline Dimensions	800 (H) ×560 (W) ×430 (D)	
Net Weight	75Kg	80Kg
Protection Class	≥ IP20	
Others		
Output Connector	Rema gun/GB	
1/o line length	About 3meters	
Heat Dissipation	Forced Air-cooling	

Product Introduction



Soft start



Safety protection



Temperature protection



Auto charging



Germany technology



Fault detect



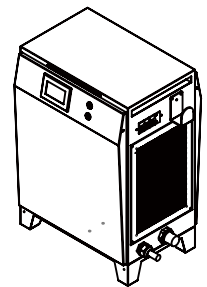
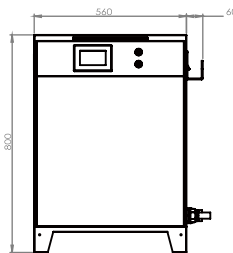
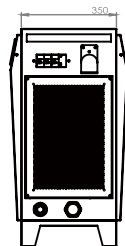
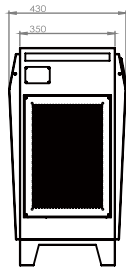
CE certification



UL certification

American standard Series

Application: American standard, three-phase 220V/480V, Three-phase four-wire Lithium forklift, lithium sweeper, lithium sightseeing car, lithium electric flat car, Lithium ship, lithium pallet truck, lithium AGV, lithium aerial vehicle



Excellent electrical properties

Adopts PFC+LLC soft switching technology, high input power factor, low current harmonics, small voltage and current ripple, high conversion efficiency and module power with high density.

Wide input voltage range

Input voltage is AC90V~265V, which can provide battery with stable and reliable temperature control function during charging under the unstable power supply environment of the battery.

Wide Output voltage range

It can adapt to the special number of cells connected in series, and also adapt to special emergency situations, 48V charger suitable for 24V lithium batteries.

Fast and safe and smart charging

With lithium battery BMS CAN communication, to realize intelligent management of battery charging and fast charging and long lithium battery life through BMS to ensure lithium battery with fast stable and safe.

User-friendly and convenient UI interface

The ergonomic appearance design is equipped with a user-friendly and convenient UI interface. The charging information status display, charging operation and setting functions are realized through the LCD touch screen + LED + button man-machine interface.

With Capacity expansion and parallel redundant operation

In the demand of capacity expansion, we can adopt the capacity expansion schemes such as "Dual charger charging single Forklift", "Single charger with dual guns charging single Forklift", "Single charger with dual guns charging dual Forklift independently".

Complete protection and self diagnosis functions

The product has the functions of overcharge protection, overvoltage protection, overcurrent protection, overtemperature protection, overtemperature protection for connector, input phase loss, input high and low voltage protection, leakage protection abnormal protection, etc, and realizes self-diagnosis and faults Display.

Modular design

Adopts design of hot-swappable modular installation, simplifies the maintenance and replacement of product components, reduces the technical requirements for users, reduces average maintenance time

Technical data

Model	48V 200A-480UL	80V 200A-480UL	48V 200A-220UL	80V 200A-220UL
DC Output				
Rated Output Power	9.6KW	16.0KW	9.6KW	16.0KW
Rated Output Current	200A	200A	200A	200A
Output Voltage Range	30VDC~65VDC	30VDC~100VDC	30VDC~58VDC	30VDC~100VDC
Current Adjustable Range	5A~200A	5A~200A	5A~200A	5A~200A
Ripple Wave	≤ 1%			
Stable Voltage Precision	≤ ± 0.5%			
Efficiency	92%			
Protection	Short circuit, Overcurrent, Overvoltage, Reverse Connection and Over-Temperature Protection			
AC Input				
Rated Input Voltage Degree	Three phase four-wire 480VAC		Three phase four-wire 220VAC	
Input Voltage Range	432VAC~528VAC		187VAC~254VAC	
Input Current Range	<20A	<30A	<40A	<67A
Frequency	50Hz~60Hz			
(PF) Power Factor	≥ 0.99			
(HDI) Current distortion	≤ 5%			
Input Protection	Overvoltage, Under-voltage, overcurrent and Lack of phase Protection			
Working Environment				
Working Environment Temperature	-20℃ ~45℃ work normally, 45℃ ~65℃ reduce output, over 65℃ Shutdown			
Storage Temperature	-40℃ ~75℃			
Relative Humidity	0~95%			
Altitude	≤ 2000m full load output, 2000~3000m according to the 5.11.2 rules in GB/T3859.2-1993, derating output			
Product Safety And Reliability				
Insulation Strength	IN-OUT : 2800VDC/10mA/1Min IN-SHEL : 2800VDC/10mA/1Min OUT-SHELL : 2800VDC/10mA/1Min			
	IN-OUT: DC500V>10MΩ IN-SHEL: DC500V>10MΩ OUT-SHELL: DC500V>10MΩ			
Dimensions And Weight				
Outline Dimensions	800 (H) ×560 (W) ×430 (D)			
Net Weight	65Kg	65Kg	70Kg	70Kg
Protection Class	≥ IP20			
Others				
Output Connector	Rema gun/GB			
1/o line length	About 3meters			
Heat Dissipation	Forced Air-cooling			



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Best Solution Lithium Battery

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