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Smart Chargers for Industrial and Utility Vehicles

Designed for Forklifts, Floor Cleaning
Machines, Aerial Work Platforms, AGVs, Golf Carts, etc.



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ROYPOW

For One-stop New Energy Solutions

- R&D, manufacturing and sales of motive power systems and energy storage systems as one-stop solutions
- Fully automatic production lines, a full range of test equipment and an advanced MES
- Covering Low-Speed Vehicles' Batteries, Industrial Batteries, as well as Residential ESS, Commercial & Industrial ESS, and Mobile ESS
- Self-development of power electronics technologies, including PCS, BMS, EMS, charger



750+ Employees
200+ R&D People
105,000 m² Headquarters Floor Area
2,500 m² Testing Center
257 Patents

Quality Control Certificates:

- ✓ Environmental Management System: ISO 14001:2015
- ✓ Occupational Health and Safety Management System: ISO 45001:2018
- ✓ Quality Management System: ISO 9001:2015, IATF16949:2016
- ✓ Information Security Management System: ISO/IEC 27001:2022
- ✓ Social Accountability Management System: SA8000:2014
- ✓ Hazardous Substance Process Management: IECQ QC 080000



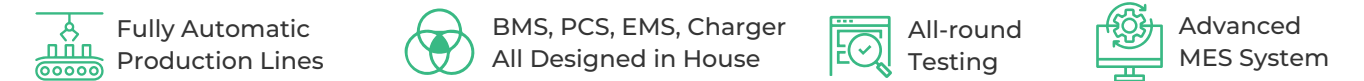
Product Certifications:

UL 1564 IEC 60335-1, IEC 60335-2-29 EN 60335-1, EN 60335-2-29, EN 62477-1

IEC/EN 61000-6-2, IEC/EN 61000-6-4 FCC Part 15 Subpart B Section 1605.3 of Title 20 of the California Cod of Regulations

R&D and Manufacturing Highlights

As a result of these investments, ROYPOW is capable of "end-to-end" integrated delivery, making our products out-perform the industry norms.



Global Sales and Service Network



ROYPOW has comprehensively unfolded its overseas market layout to ensure the localization of R&D, manufacturing, marketing and service, becoming one of your most reliable and valuable partners.



Upgrading to New Technology, with Our Turnkey Solutions.

With years of dedication to new energy solutions, we are proud to offer customers professional solutions for:

ROYPOW Forklift Battery Chargers

- US-Standard Chargers
- EU-Standard Chargers
- JP-Standard Chargers

ROYPOW Industrial / Utility Vehicle Battery Chargers

- 120VAC 2940W US-Standard Chargers
- 240VAC 2940W US-Standard Chargers
- 2940W EU-Standard Chargers
- 1680W Chargers
- 1100W Chargers
- 850W Chargers
- 300W Chargers





ROYPOW Smart Chargers for Forklift Batteries

ROYPOW professional chargers are smart, efficient, and safe, enabling optimal battery performance and the best communication between the charger and the battery to extend the battery service life.



US-Standard Chargers



Key Features



CEC Energy Efficiency



More compact structure to save space



Support intelligent, automatic charging



Compatible with various lithium forklift battery models



Support scheduled charging and personalized charging settings for flexible charging



Support fast charging for reduced downtime, without the need for battery swaps in multi-shift operations



Support anti-walking function to protect the forklift while charging



Support software updates



Simple air-cooled design

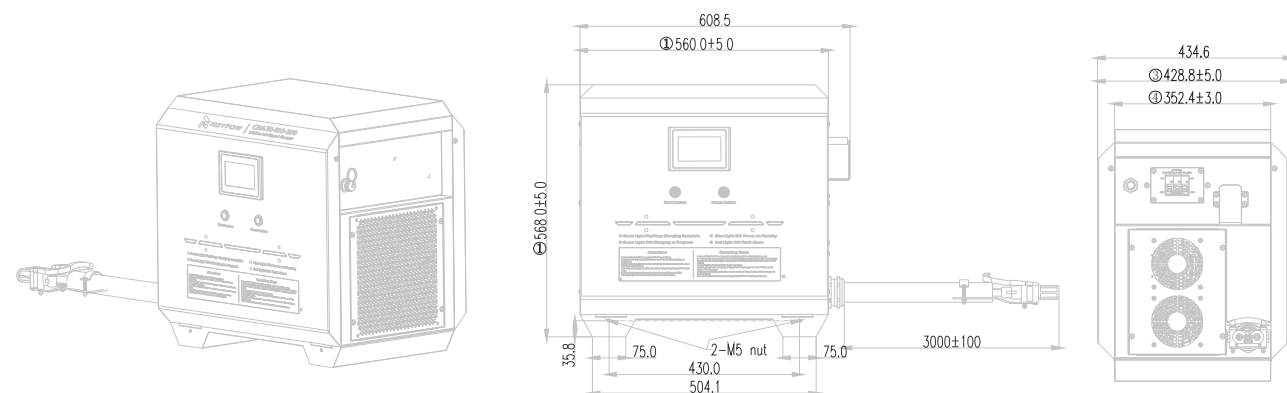


Smart display for intelligent touch control, 12 language settings, and real-time monitoring



Support output/input overvoltage/undervoltage protection, over-temperature protection, short-circuit protection, and reverse connection protection

Model	CHA30-100-100-US	CHA30-100-200-US	CHA30-100-300-US
Rated Input Voltage	480 Vac		
Input Current	<20A	<40A	<50A
Input Voltage Range	305~528Vac (265~305Vac Derating)		
String Number of LiFePO ₄ Batteries	12~26 S		
Output Power	Max. 10 kW	Max. 20 kW	Max. 30 kW
Rated Output Voltage	30~100 Vdc		
Output Current	0~100 A	0~200 A	0~300 A
Dimension (L x W x H)	25.39 x 10.55 x 22.36 inch (645 x 268 x 568 mm)	23.98 x 17.13 x 22.36 inch (609 x 435 x 568 mm)	24.72 x 16.89 x 30.67 inch (628 x 429 x 779 mm)
Weight	88.18 lbs (40kg)	121.25 lbs (55 kg)	165.35 lbs (75 kg)



EU-Standard Chargers



Key Features

 Simple air-cooled design

 More compact structure to save space

 Support intelligent, automatic charging

 Compatible with various lithium forklift battery models

 Support scheduled charging and personalized charging settings for flexible charging

 Support fast charging for reduced downtime, without the need for battery swaps in multi-shift operations

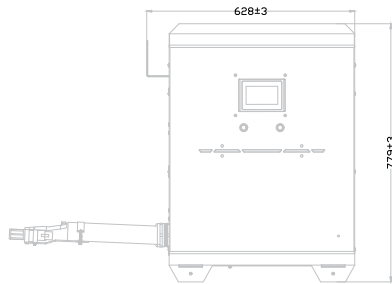
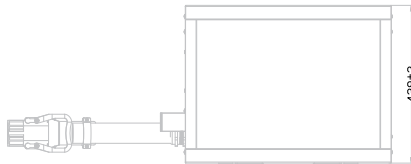
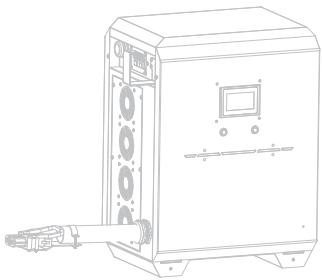
 Support anti-walking function to protect the forklift while charging

 Support software updates

 Smart display for intelligent touch control, 12 language settings, and real-time monitoring

 Support output/input overvoltage/under-voltage protection, over-temperature protection, short-circuit protection, and reverse connection protection

Model	CHA30-100-100-EU	CHA30-100-200-EU	CHA30-100-300-EU
Rated Input Voltage	400 Vac		
Input Current	<20A	<40A	<53A
Input Voltage Range	305~528Vac (265~305Vac Derating)		
String Number of LiFePO ₄ Batteries	12~26 S		
Output Power	Max. 10 kW	Max. 20 kW	Max. 30 kW
Rated Output Voltage	30~100 Vdc		
Ouput Current	0~100 A	0~200 A	0~300 A
Dimension (L x W x H)	25.39 x 10.55 x 22.36 inch (645 x 268 x 568 mm)	23.98 x 17.13 x 22.36 inch (609 x 435 x 568 mm)	24.72 x 16.89 x 30.67 inch (628 x 429 x 779 mm)
Weight	88.18 lbs (40kg)	121.25 lbs (55 kg)	171.96 lbs (78 kg)



JP-Standard Chargers



Key Features

 Simple air-cooled design

 More compact structure to save space

 Support intelligent, automatic charging

 Compatible with various lithium forklift battery models

 Support scheduled charging and personalized charging settings for flexible charging

 Support fast charging for reduced downtime, without the need for battery swaps in multi-shift operations

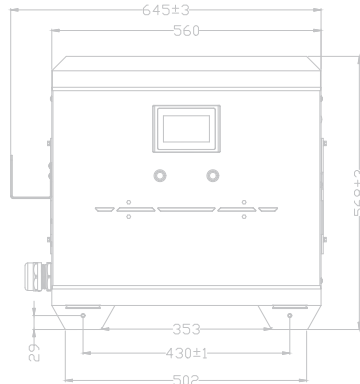
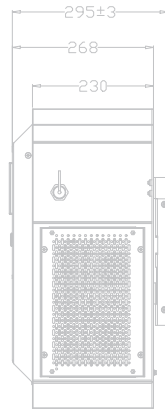
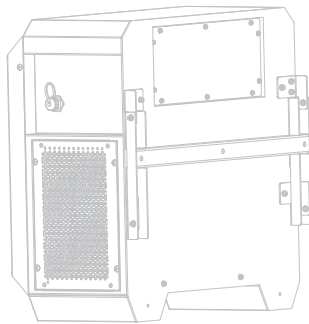
 Support anti-walking function to protect the forklift while charging

 Support software updates

 Smart display for intelligent touch control, 12 language settings, and real-time monitoring

 Support output/input overvoltage/under-voltage protection, over-temperature protection, short-circuit protection, and reverse connection protection

Model	CHA30-100-100-JP	CHA30-100-200-JP	CHA30-100-300-JP
Rated Input Voltage	200 Vac		
Input Current	<45A	<90A	<135A
Input Voltage Range	176~250Vac (160~305Vac Derating)		
String Number of LiFePO ₄ Batteries	12~26 S		
Output Power	Max. 10 kW	Max. 20 kW	Max. 30 kW
Rated Output Voltage	30~100 Vdc		
Ouput Current	0~100 A	0~200 A	0~300 A
Dimension (L x W x H)	25.39 x 10.55 x 22.36 inch (645 x 268 x 568 mm)	23.98 x 17.13 x 22.36 inch (609 x 435 x 568 mm)	24.72 x 16.89 x 30.67 inch (628 x 429 x 779 mm)
Weight	99.21 lbs (45kg)	121.25 lbs (55 kg)	180.78 lbs (82kg)





ROYPOW Smart Chargers for Industrial / Utility Vehicle Batteries

ROYPOW intelligent chargers are engineered for versatility and performance, delivering fast, efficient, and reliable charging for aerial work platforms, floor cleaning machines, AGVs, golf carts, etc. They ensure seamless interaction with lithium batteries, maximizing uptime and extending battery lifespan, while maintaining superior safety standards.



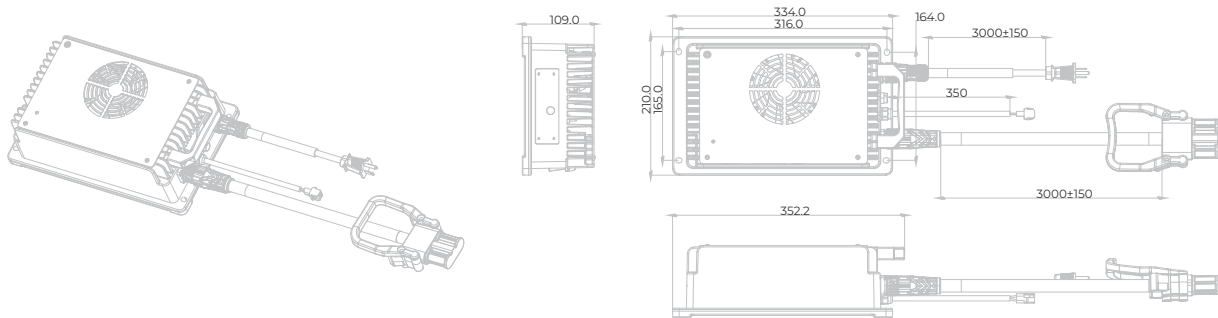
120VAC 2940W US-Standard Chargers



Key Features

- Support app monitoring via Bluetooth for real-time monitoring and firmware upgrades
- Support forced air cooling
- IP67 (NEMA4) ingress rating
- Enhanced corrosion and vibration resistance with aluminum alloy casing
- Support anti-walking function
- Compatible with various lithium battery models of industrial vehicles
- Support intelligent management
- Support output/input overvoltage/under-voltage protection, over-temperature protection, short-circuit protection, and reverse connection protection

Model	CHG4830F05S20	CHG7220F05S20
Rated Input Voltage	L+N+PE 110VAC	
Rated Input Frequency	47Hz~63Hz	
Power Factor	≥0.97	
Max. Input Current	<18A	
Conversion Efficiency	≥93%	
Rated Output Voltage	51.2V	76.8V
Output Current Range	30A MAX	20A MAX
Max. Output Power	1680W	
DC Output Voltage	40~58.4VDC	60~87.6VDC
Output Plug	Customizable	
Cooling Method	Forced Air Cooling	
Working Temperature Range	-20℃~40℃ / -4°F~104°F	
Working Humidity	0~95%, No Condensation	
Ingress Rating	IP67/NEMA4	
Altitude	<2000m	
Dimension (L x W x H)	13.15 x 8.27 x 4.29 inch (334 x 210 x 109 mm) Without Handle	
Weight	14.33 lbs (6.5kg)	



240VAC 2940W US-Standard Chargers



Key Features

 Support app monitoring via Bluetooth for real-time monitoring and firmware upgrades

 Support forced air cooling

 IP67 (NEMA4) ingress rating

 Enhanced corrosion and vibration resistance with aluminum alloy casing

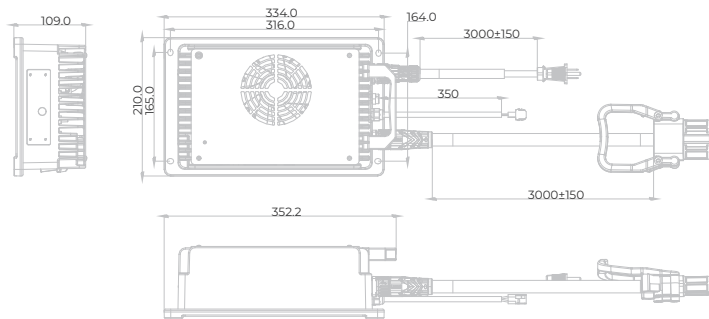
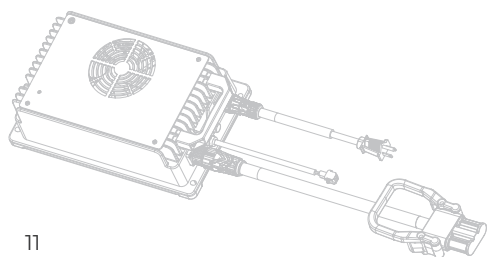
 Support anti-walking function

 Compatible with various lithium battery models of industrial vehicles

 Support intelligent management

 Support output/input overvoltage/under-voltage protection, over-temperature protection, short-circuit protection, and reverse connection protection

Model	CHG4850F06D20	CHG4845F06D20	CHG4840F06D20	CHG4835F06D20	CHG7235F06D20	CHG7230F06D20	CHG7225F06D20	CHG7220F06D20
Rated Input Voltage	L+L+PE 208/240VAC							
Rated Input Frequency	47Hz~63Hz							
Power Factor	≥0.97							
Max. Input Current	<16A							
Conversion Efficiency	≥93%							
Rated Output Voltage	51.2V				76.8V			
Output Current Range	50A MAX	45A MAX	40A MAX	35A MAX	35A MAX	30A MAX	25A MAX	20A MAX
Max. Output Power	2800W	2520W	2240W	1960W	2940W	2520W	2100W	1680W
DC Output Voltage	40~58.4VDC				60~87.6VDC			
Output Plug	Customizable							
Cooling Method	Forced Air Cooling							
Working Temperature Range	-20°C ~ 40°C / -4°F ~ 104°F							
Working Humidity	0 ~ 95%, No Condensation							
Ingress Rating	IP67/NEMA4							
Altitude	<2000m							
Dimension (L x W x H)	13.15 × 8.27 × 4.29 inch (334 × 210 × 109 mm) Without Handle							
Weight	14.33 lbs (6.5kg)							



2940W EU-Standard Chargers



Key Features

 Support app monitoring via Bluetooth for real-time monitoring and firmware upgrades

 Support forced air cooling

 IP67 (NEMA4) ingress rating

 Enhanced corrosion and vibration resistance with aluminum alloy casing

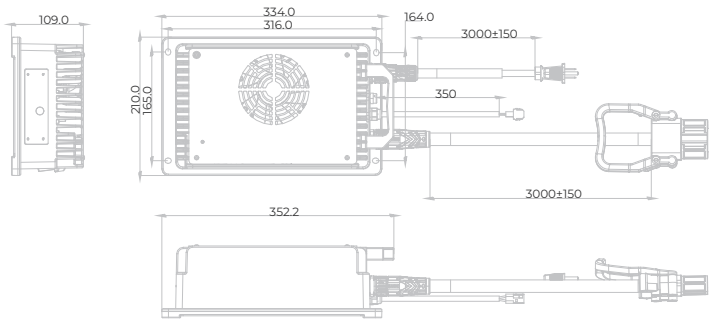
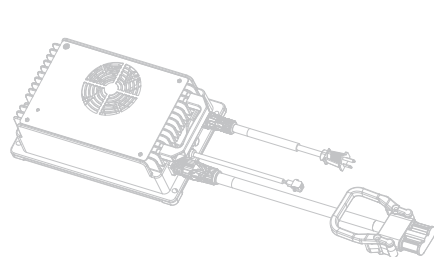
 Support anti-walking function

 Compatible with various lithium battery models of industrial vehicles

 Support intelligent management

 Support output/input overvoltage/under-voltage protection, over-temperature protection, short-circuit protection, and reverse connection protection

Model	CHG4850F	CHG4845F	CHG4840F	CHG4835F	CHG7235F	CHG7230F	CHG7225F
Rated Input Voltage	L+N+PE 230VAC						
Rated Input Frequency	47Hz~63Hz						
Power Factor	≥0.97						
Max. Input Current	<16A						
Conversion Efficiency	≥93%						
Rated Output Voltage	51.2V			76.8V			
Output Current Range	50A MAX	45A MAX	40A MAX	35A MAX	35A MAX	30A MAX	25A MAX
Max. Output Power	2800W	2520W	2240W	1960W	2940W	2520W	2100W
DC Output Voltage	40~58.4VDC			60~87.6VDC			
Output Plug	Customizable						
Cooling Method	Forced Air Cooling						
Working Temperature Range	-20°C~-40°C / -4°F~104°F						
Working Humidity	0~95%, No Condensation						
Ingress Rating	IP67/NEMA4						
Altitude	<2000m						
Dimension (L x W x H)	13.15 x 8.27 x 4.29 inch (334 x 210 x 109 mm) Without Handle						
Weight	14.33 lbs (6.5kg)						



1680W Chargers

Key Features



Support app monitoring via Bluetooth for real-time monitoring and firmware upgrades



Support forced air cooling



IP67 (NEMA4) ingress rating



Enhanced corrosion and vibration resistance with aluminum alloy casing



Support anti-walking function



Compatible with various lithium battery models of industrial vehicles

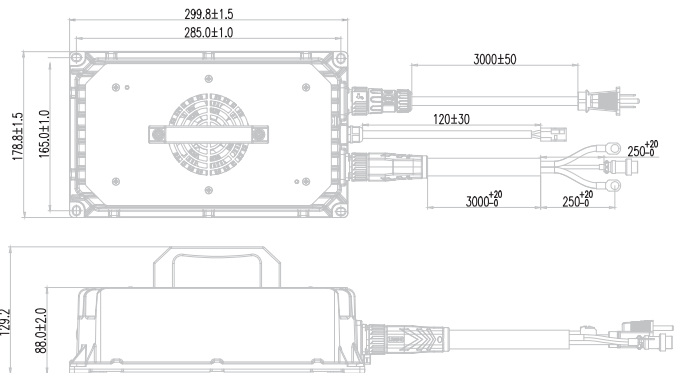
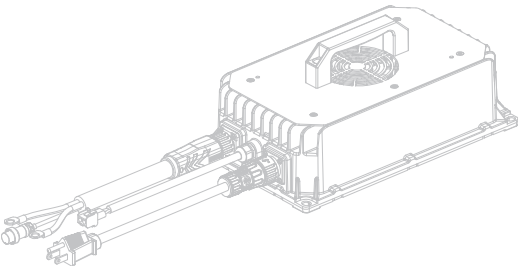


Support intelligent management



Support output/input overvoltage/under-voltage protection, over-temperature protection, short-circuit protection, and reverse connection protection

Model	CHG2435F	CHG2440F	CHG2445F	CHG2450F	CHG4820F	CHG4825F	CHG4830F	CHG7215F	CHG7220F
Rated Input Voltage	L+N+PE 110/230VAC								
Rated Input Frequency	47Hz~63Hz								
Power Factor	≥0.97								
Max. Input Current	<10A@230VAC <15A@120VAC	<10A@230VAC <15A@120VAC	<10A@230VAC <15A@120VAC	<10A@230VAC <15A@120VAC	<10A@230VAC <15A@120VAC	<10A@230VAC <15A@120VAC	<10A@230VAC <15A@120VAC	<10A@230VAC <15A@120VAC	<10A@230VAC <15A@120VAC
Conversion Efficiency	≥93%				≥94%				
Rated Output Voltage	25.6V				51.2V			76.8V	
Output Current Range	35A MAX	40A MAX	45A MAX@230VAC 40A MAX@120VAC	50A MAX@230VAC 40A MAX@120VAC	20A MAX	25A MAX	30A MAX@230VAC 25A MAX@120VAC	15A MAX	20A MAX@230VAC 15A MAX@120VAC
Max. Output Power	966W	1120W	1200W@230VAC 1120W@120VAC	1200W@230VAC 1120W@120VAC	1120W	1400W@230VAC 1200W@120VAC	1680W@230VAC 1200W@120VAC	1278W	1680W@230VAC 1278W@120VAC
DC Output Voltage	20~29.2VDC				40~58.4VDC			60~87.6VDC	
Output Plug	Customizable								
Cooling Method	Forced Air Cooling								
Working Temperature Range	-20℃~40℃ / -4°F~104°F								
Working Humidity	0~95%, No Condensation								
Ingress Rating	IP67/NEMA4								
Altitude	<2000m								
Dimension (L x W x H)	11.8 x 7.04 x 3.46 inch (299.8 x 178.8 x 88 mm) Without Handle								
Weight	12.13 lbs (5.5kg)								



1100W Chargers

Key Features



Support app monitoring via Bluetooth for real-time monitoring and firmware upgrades



Support forced air cooling



IP67 (NEMA4) ingress rating



Enhanced corrosion and vibration resistance with aluminum alloy casing



Support anti-walking function



Compatible with various lithium battery models of industrial vehicles

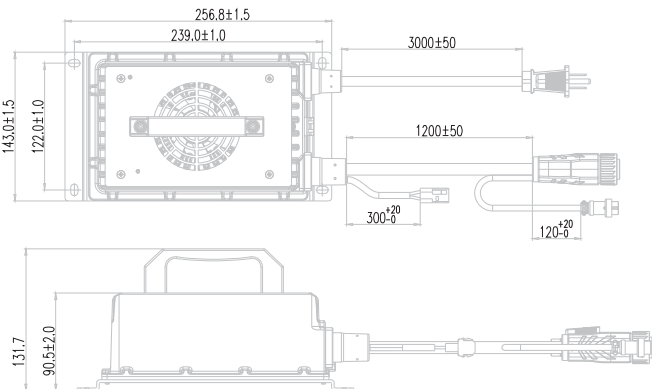
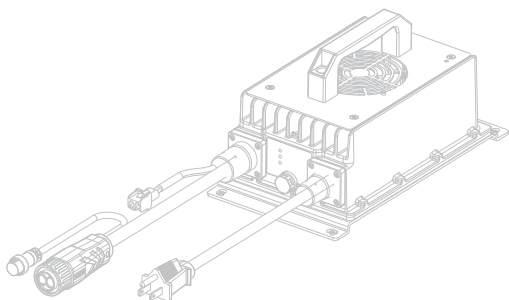


Support intelligent management



Support output/input overvoltage/under-voltage protection, over-temperature protection, short-circuit protection, and reverse connection protection

Model	CHG5820F
Rated Input Voltage	L+N+PE 110/230VAC
Rated Input Frequency	47Hz~63Hz
Power Factor	≥0.99
Max. Input Current	<11A
Conversion Efficiency	≥92%
Rated Output Voltage	51.2V
Output Current Range	20A MAX
Max. Output Power	1100W
DC Output Voltage	40~58.4VDC
Output Plug	Customizable
Cooling Method	Forced Air Cooling
Working Temperature Range	-15°C~-40°C / 5°F~104°F
Working Humidity	0~95%, No Condensation
Ingress Rating	IP67/NEMA4
Altitude	<2000m
Dimension (L x W x H)	10.11 x 5.63 x 3.56 inch (256.8 x 143 x 90.5 mm) Without Handle
Weight	7.72 lbs (3.5kg)



850W Chargers



Key Features

- 

Support app monitoring via Bluetooth for real-time monitoring and firmware upgrades
- 

Support forced air cooling
- 

IP67 (NEMA4) ingress rating
- 

Enhanced corrosion and vibration resistance with aluminum alloy casing
- 

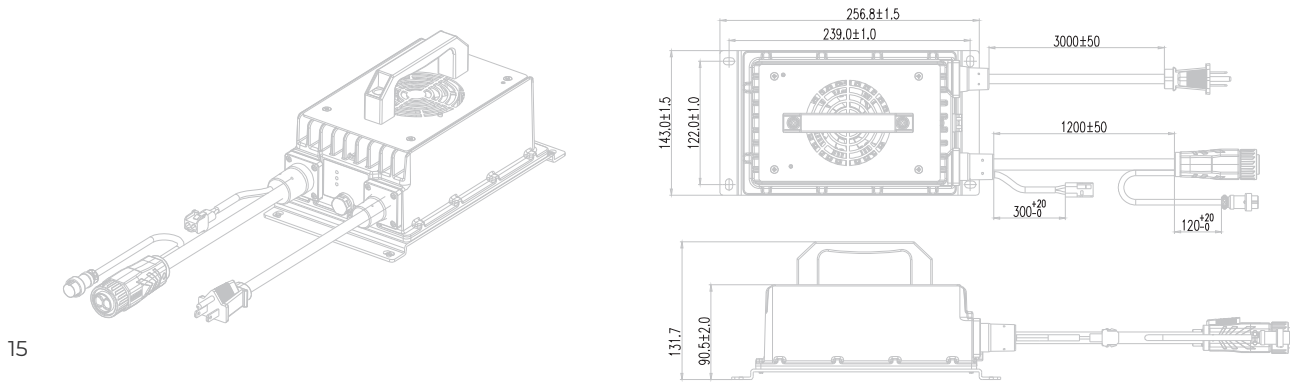
Support anti-walking function
- 

Compatible with various lithium battery models of industrial vehicles
- 

Support intelligent management
- 

Support output/input overvoltage/under-voltage protection, over-temperature protection, short-circuit protection, and reverse connection protection

Model	CHG2430F	CHG2425F	CHG2420F	CHG2415F	CHG3620F	CHG3615F	CHG3610F	CHG4815F	CHG4810F	CHG7210F	CHG7205F
Rated Input Voltage	L+N+PE 110/230VAC										
Rated Input Frequency	47Hz~63Hz										
Power Factor	≥0.99										
Max. Input Current	<5A@230VAC; <10A@120VAC										
Conversion Efficiency	≥92%										
Rated Output Voltage	25.6V				38.4V			51.2V		76.8V	
Output Current Range	30A MAX	25A MAX	20A MAX	15A MAX	20A MAX	15A MAX	10A MAX	15A MAX	10A MAX	10A MAX	5A MAX
Max. Output Power	850W	700W	560W	420W	850W	630W	420W	850W	560W	850W	425W
DC Output Voltage	20~29.2VDC				30~43.8VDC			40~58.4VDC		60~87.6VDC	
Output Plug	Customizable										
Cooling Method	Forced Air Cooling										
Working Temperature Range	-15°C ~ 40°C / 5°F ~ 104°F										
Working Humidity	0 ~ 95%, No Condensation										
Ingress Rating	IP67/NEMA4										
Altitude	<2000m										
Dimension (L x W x H)	10.11 x 5.63 x 3.56 inch (256.8 x 143 x 90.5 mm) Without Handle										
Weight	7.72 lbs (3.5kg)										



300W Chargers



Key Features

- 

Support app monitoring via Bluetooth for real-time monitoring and firmware upgrades
- 

Support forced air cooling
- 

IP67 (NEMA4) ingress rating
- 

Enhanced corrosion and vibration resistance with aluminum alloy casing
- 

Support anti-walking function
- 

Compatible with various lithium battery models of industrial vehicles
- 

Support intelligent management
- 

Support output/input overvoltage/under-voltage protection, over-temperature protection, short-circuit protection, and reverse connection protection

Model	CHG1205F	CHG1210F	CHG1215F	CHG1220F	CHG2405F	CHG2410F	CHG2412F	CHG3605F	CHG3608F	CHG4803F	CHG4805F	CHG4806F
Rated Input Voltage	L+N+PE 110/230VAC											
Rated Input Frequency	47Hz~63Hz											
Power Factor	≥0.98											
Max. Input Current	< 5A											
Conversion Efficiency	≥ 86%				≥ 90%							
Rated Output Voltage	14.6V				29.2V			43.8V		58.4V		
Output Current Range	5A MAX	10A MAX	15A MAX	20A MAX	5A MAX	10A MAX	12A MAX	5A MAX	8A MAX	3A MAX	5A MAX	6A MAX
Max. Output Power	73W	146W	219W	292W	146W	292W	350.4W	219W	350.4W	175.2W	292W	350.4W
DC Output Voltage	10~14.6VDC				20~29.2VDC			30~43.8VDC		40~58.4VDC		
Output Plug	Customizable											
Cooling Method	Forced Air Cooling											
Working Temperature Range	-20°C~40°C / -4°F~104°F											
Working Humidity	0~95%, No Condensation											
Ingress Rating	IP67/NEMA4											
Altitude	<2000m											
Dimension (L x W x H)	7.2 × 4.69 × 2.48 inch (183 × 119 × 63 mm) Without Handle											
Weight	4.41 lbs (2kg)											

