

ULBS

LITHIUM-ION CHARGERS

Charger Specification Sheet

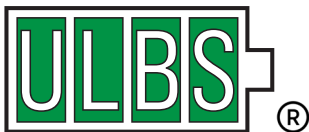


Revision: 09/24/2025

24V, 36V, 48V, 72V, 80V & 96V Lithium-ion Chargers

Features:

- / The 24V, 36V, 48V, 72V, 80V, and 96V Lithium-ion Chargers feature a simple, easy-to use, interface.
- / The chargers comply with UL standards.
- / The chargers are lightweight and compact in size.
- / The 24V, 36V, 48V, 72V, 80V, and 96V Lithium-ion Chargers use the CANBUS to communicate with both the forklift and the battery.
- / The three-phase chargers' export function allows for charging records/information to be exported and reviewed easily using the chargers' SD slot
- / The chargers feature fast voltage dropping protection to avoid charger connector damage.
- / The auxiliary power supply design is secure and reliable.
- / This lithium-ion battery charger features multi-level protection, including input over-voltage, under-voltage, output over-voltage, under-voltage, over-current and output short circuit protection.
- / The chargers are designed to have a $\geq 93\%$ conversion efficiency.
- / Unique software calibration function ensure output current and voltage accuracy.



Universal Lithium Battery Supply

Three-Phase 480V Lithium-ion Chargers Technical Parameters:

Model	FST-Li-48V100A-480	FST-Li-48V200A-480	FST-Li-48V300A-480	FST-Li-80V200A-480
Input Voltage	AC480V Three-Phase Four-Wire System			
Applicable Battery Voltage	24V,36V,48V	24V,36V,48V	24V,36V,48V	72,80V,96V
Input Current	<13A	<26A	<32A	<40A
Breaker Specifications	15A	30A	40A	40A
Maximum Output Voltage	DC65V	DC65V	DC65V	DC110V
Maximum Output Current	200A	200A	300A	200A
Maximum Power	6.5kW	13kW	19.5kW	20kW
Charging Connector	REMA 320	REMA 320	REMA MRC320	REMA 320
Communication	CANBUS			
Conversion Efficiency	≥ 93%			
Length	11.81"	11.81"	11.81"	11.81"
Width	20.87"	20.87"	20.87"	20.87"
Height	25.59"	25.59"	31.89"	25.59"
Weight	~70.5lbs	~70.5lbs	~95.1lbs	~70.5lbs

Three-Phase 480V Lithium-ion Charger Wiring Diagram:

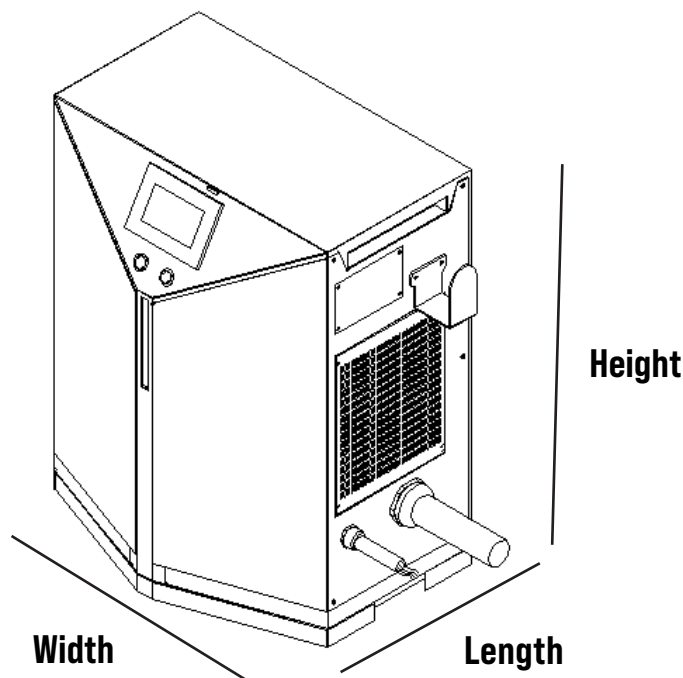
Wire Type	Wire Color	Wire Label
Ground (PE-Protected Earth)	Yellow/Green	PE
Phase	Red	L1
Phase	White	L2
Phase	Black	L3



AC Input Cable



DC Output REMA320

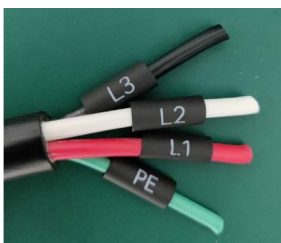


Three-Phase 220V Lithium-ion Chargers Technical Parameters:

Model	FST-Li-48V200A-220V3P	FST-Li-80V200A-220V3P
Input Voltage	AC208V Three-Phase Four-Wire System AC240V Three-Phase Four-Wire System	
Applicable Battery Voltage	24,36V,48V	72,80V,96V
Input Current	<38A	<64A
Breaker Specifications	40A	70A
Maximum Output Voltage	DC60V	DC100V
Maximum Output Current	200A	200A
Maximum Power	13kW	22kW
Charging Connector	REMA 320	
Communication	CANBUS	
Conversion Efficiency	≥93%	
Length	11.81"	11.81"
Width	20.87"	20.87"
Height	25.59"	31.89"
Weight	~70.5lbs	~88.18lbs

Three-Phase 220V Lithium-ion Charger Wiring Diagram:

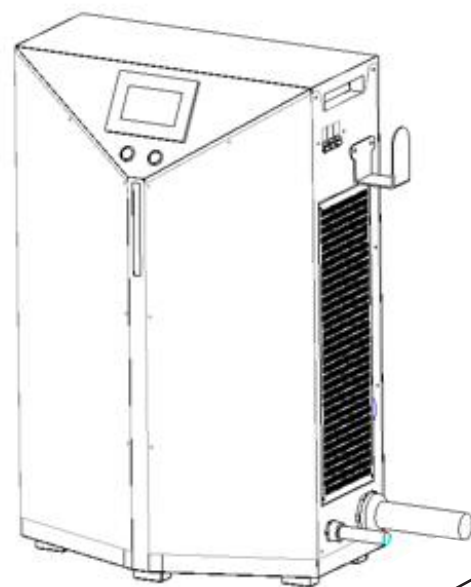
Wire Type	Wire Color	Wire Label
Ground (PE-Protected Earth)	Yellow/Green	PE
Phase	Red	L1
Phase	White	L2
Phase	Black	L3



AC Input Cable



DC Output REMA320



Height

Width

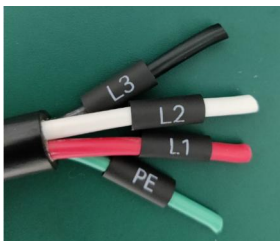
Length

Three-Phase 480V 400A Dual Lithium-ion Charger Technical Parameters:

Model	FST-Li-48V400A-S-480
Input Voltage	AC480V Three-Phase Four-Wire System
Applicable Battery Voltage	24,36V,48V
Input Current	<52A
Breaker Specifications	60A
Maximum Output Voltage	DC60V
Maximum Output Current	2*200A
Maximum Power	26kW
Charging Connector	2*REMA320
Communication	CANBUS
Conversion Efficiency	≥93%
Length	13.46"
Width	29.69"
Height	32.40"
Weight	~120lbs

Three-Phase 480V Lithium-ion Charger Wiring Diagram:

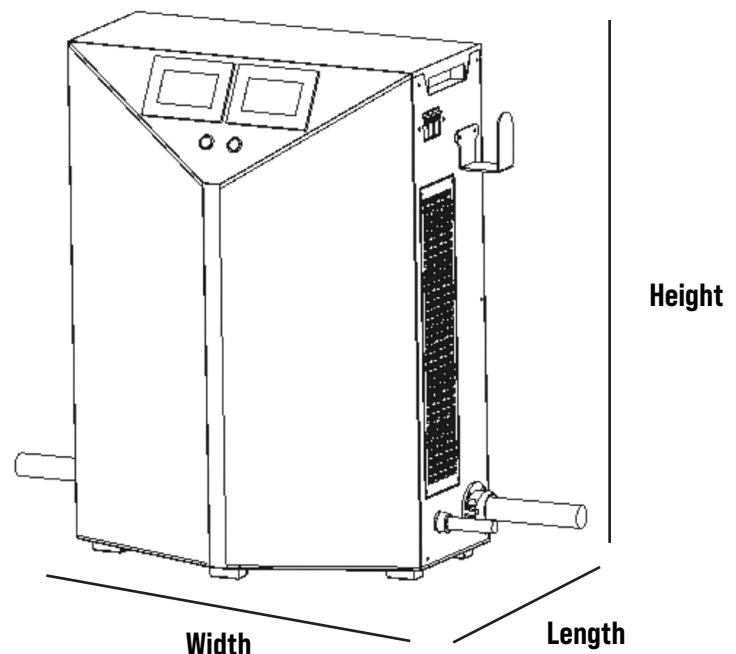
Wire Type	Wire Color	Wire Label
Ground (PE-Protected Earth)	Yellow/Green	PE
Phase	Red	L1
Phase	White	L2
Phase	Black	L3



AC Input Cable



DC Output 2* REMA320



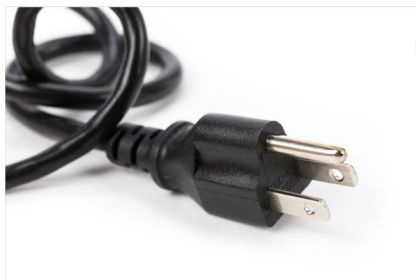
ULBS' 110V Single-Phase Lithium-ion Convenient Chargers Technical Parameters:

Model	FST-3k24100	FST-3k3660	FST-3k4850	FST-3k8035
Input Voltage	Single-Phase 110VAC			
Applicable Battery Voltage	24V	36V	48V	80V
Input Current	<15A	<15A	<15A	<15A
Breaker Specifications	15A	15A	15A	15A
Maximum Output Voltage	DC30V	DC45V	DC60V	DC100V
Maximum Output Current	50@110VAC	30A@110VAC	25A@110VAC	17.5A@110VAC
Maximum Power	1.5kW@110VAC	1.5kW@110VAC	1.5kW@110VAC	1.5kW@110VAC
Charging Connector	REMA320			
Communication	CANBUS			
Conversion Efficiency	≥93%			
Length	7.87"	7.87"	7.87"	7.87"
Width	14.17"	14.17"	14.17"	14.17"
Height	7.09"	7.09"	7.09"	7.09"
Weight	~15.4lbs	~15.4lbs	~15.4lbs	~15.4lbs

Note: These chargers are designed to work with both 110V and 220V Single-Phase power sources.

ULBS' Single- Phase Convenient Lithium-ion Charger Wiring Diagram

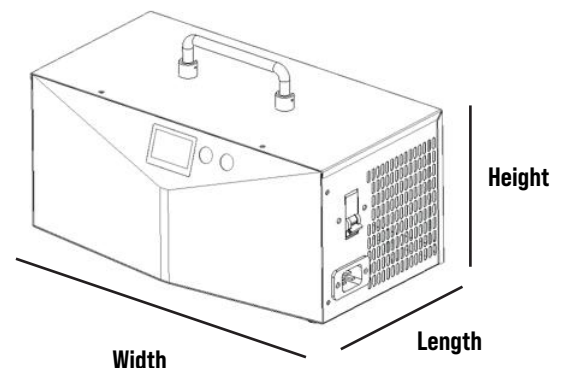
Single-Phase Convenient Lithium-ion Charger Wiring: 110V Plug



AC Input Cable



DC Output REMA320



ULBS' Lithium-ion Charger Stands

Model	FST-S-001	FST-S-008
W	29.36"	32.96"
H1	51.42"	51.42"
H2	82.23"	82.23"
L	15.43"	16.34"
Matching Charger Model	FST-Li-48V100A-480 FST-Li-48V200A-480 FST-Li-48V300A-480 FST-Li-80V200A-480 FST-Li-48V200A-220V3P FST-Li-80V200A-220V3P	FST-Li-48V400A-S-480

Cable Retractor



Function: Quickly pull out and retract the cable, saving time and boosting workflow efficiency

ULBS' Lithium-ion Charger Stands Diagram:

