

CHARGER100

48V 100A Intelligent Lithium Battery Charger



DEALER PORTAL



Designed for flexible 48V lithium charging

RUIXU CHARGER100 delivers up to 100A adjustable charging current and 6kW output for 48V lithium battery systems. With 90–264 VAC input, CAN BMS communication, and automatic generator control, it provides intelligent charging for residential energy storage, backup power, and off-grid applications.

100 A

Max. Charge Current

6 kW

Max. Output @ 240 VAC

90-264 VAC

Wide AC Input

CAN

BMS Communication

100

Up to 6kW Output

Adjustable charging current up to 100 A

GEN

Automatic Generator Start/Stop

Dry-contact generator control

CAN

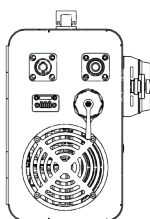
Smart CAN BMS Communication

Intelligent battery communication via CAN

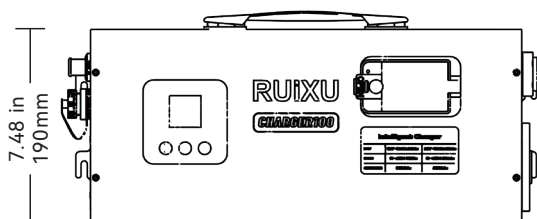
LCD

LCD Monitoring

Real-time operating status and settings

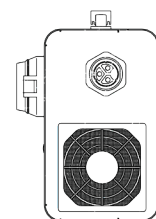


4.72 in
120mm



7.48 in
190mm

17.72 in
450mm



4.72 in
120mm

TECHNICAL SPECIFICATIONS

CHARGER100 | 48V Lithium Battery Charger

48 VDC

Nominal Battery

2-100 A

Charge Current*

40-60 VDC

Charge Voltage

94%

Max. Efficiency

AC INPUT	
AC Input Voltage Range	90-264 VAC
AC Frequency	50-60 Hz
Max. Input Current	26 A @ 240 VAC; 28 A @ 120 VAC
Idle Consumption	-10 W
CHARGER OUTPUT	
Battery Voltage	48 VDC nominal
Charge Current (adjustable)	2-100 A @ 240 VAC; 2-45 A @ 120 VAC; 2-50 A @ 208 VAC
Charge Voltage (adjustable)	40-60 VDC (default 56.5 VDC)
Max. Output	6000 W @ 240 VAC; 3000 W @ 120 VAC
Max. Efficiency	94% @ 240 VAC; 92% @ 120 VAC
COMMUNICATION	
Generator Control	Dry Contact (NO, NC, C)
BMS Communication	CAN (RJ45 Interface)
ENVIRONMENTAL	
Operating Temperature Range	14°F to 131°F (-10°C to 55°C)
Storage Temperature Range	5°F to 140°F (-15°C to 60°C)
Humidity	5%-95% relative humidity (non-condensing)
Ingress Protection	IP20
Operating Altitude	0-4921 ft. (0-1500 m)
GENERAL	
Dimensions H x W x D	7.48 x 17.72 x 4.72 in. (190 x 450 x 120 mm)
Net Weight	13.2 lbs. (6.0 kg)
Warranty	3 years (only when used indoors)

* Charge current depends on AC input voltage, as listed above. Specifications reproduced from the supplied RUIXU source sheet.