

AUTOMATIC RESCUE DEVICE

SOJI SP SERIES

Model: SJ-S 48VDC/ 60VDC/ 72VDC/ 96VDC/ 120VDC



POWER OF THE WORLD

SOJI SJ-S Series Operating System

This device is mainly an UPS supplied by a 60V 7AH batteries, with some additional functions. This device can be used for emergency evacuation operation for all elevator panels with inverters of all power ratings with the main control panel is supplied from 220V/50Hz inverter and the inverters DC buses are directly derived from the batteries.

Why SOJI 60VDC?

- ✓ Pure sine wave output
- ✓ There is no power limited in SOJI
- ✓ 12V output for intercom
- ✓ Microprocessor-based digital control
- ✓ Auto restart while AC is recovering
- ✓ Intelligent battery management with build in 3 stage charger will help prolong battery life
- ✓ High efficiency, optimum performance, low maintenance, easy to operate
- ✓ User friendly through LED indicators
- ✓ Small size, light weight to build in lift control panel
- ✓ 310VDC output to supply lift inverter control circuit (such as Yaskawa L1000A)
- ✓ Short circuit and overload protection
- ✓ Suitable for all kinds of elevator VVVF supported DC rescue operation
- ✓ Expandable DC voltage to 60VDC – 72VDC- 96VDC -120VDC for many different types of inverters on the marke

How's it works?

The main part of the Soji SJ-S Series device is a '220VAC, 50Hz/60Hz inverter build-in battery charger' which supplies power to the main lift control panel, including the control circuits, the brake and the door unit, during a power failure. In Soji SJ-S elevator rescue device, the main power to the motor drive inverter is supplied directly from the Batteries with voltage 48VDC/ 60VDC/ 72VDC/ 96VDC/ 120VDC depends on the model.

This device can be used for emergency evacuation operation for all elevator panels with inverters of all power ratings, because the inverters DC buses are directly derived from the batteries.

They usually require 220Volts to activate their own built-in power supply, and a powerful DC voltage (the batteries) to be connected to their DC bus for power conversion. This DC bus voltage changes from 48V to 120V depending on the different model.



Soji SJ-S Series devices are to be placed within the main elevator control panel. The dimensions are 155 mm width, 180mm height, and 175mm depth, weight 7.0 kg.

TECHNICAL SPECIFICATIONS

Model: SJ-S 48VDC/ 60VDC/ 72VDC/ 96VDC/ 120VDC



Model	SJ-S 48VDC	SJ-S 60VDC	SJ-S 72VDC	SJ-S 96VDC	SJ-S 120VDC
Power rating	1000VA (1500VA optional)				
Input					
AC Voltage	220V Single phase + N 50Hz				
DC Voltage	48VDC	60VDC	72VDC	96VDC	120VDC
DC, AC start	Yes				
Output					
AC Voltage output	220V				
Wave form	Pure Sine (Mains); Pure sine (Battery)				
Frequency	50Hz/ 60Hz				
Delayed output	5s – 10s – 20s				
Transfer	<10ms				
DC Voltage output	48VDC	60VDC	72VDC	96VDC	120VDC
Battery					
Battery type	Lead acid maintenance free battery				
Charging	48VDC	60VDC	72VDC	96VDC	120VDC
DC Configuration	4 x 12V	5 x 12V	6 x 12V	7 x 12V	8 x 12V
Recharge	90% Capacity after 8 hours				
Back up time	Depend on battery capacity, automatic off after 300s in evacuation mode				
Other features					
Transformer	Yes				
Noise	<45db (1m)				
Temperature	0 – 45°C				
Humidity	20% -90% (Non- Condensing)				
Weight	7.0 kg				
Dimension	155 x 180 x 175 mm				

SOJI TECHNOLOGY CO., LTD
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A Division of SOJI Corporation

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