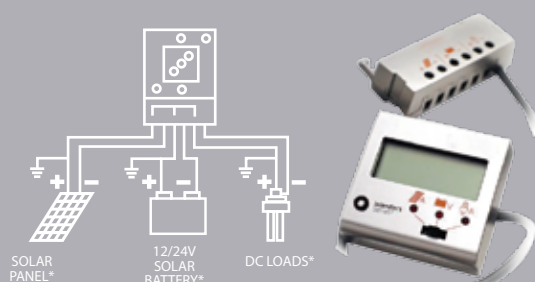


iSCC-L™ Series

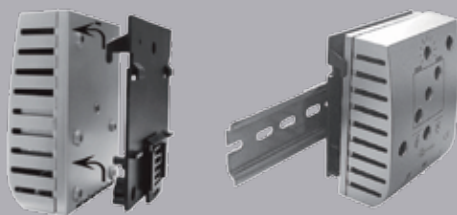


Solar Charge and Discharge Controller
iSCC-L Series of ISLANDERS

SOLAR CHARGE AND DISCHARGE CONTROLLER



Remote Digital
Display iSCC-DL of
ISLANDERS (OPTIONAL)



DIN Rail Adapter iSCC-DIN of ISLANDERS (OPTIONAL)



SOLAR
PANEL*

CHARGE
CONTROLLER

SOLAR
BATTERY*

*Not included

iSCC-L™ Series

Solar Charge and Discharge Controller 12/24V
Automatic Detection

Product Overview

This solar charge and discharge controller protects the battery from being overcharged by the solar panels and from being over-discharged by the DC loads. The iSCC-L™ Series of ISLANDERS are sophisticated solar charge and discharge controllers for small solar systems where, charge and discharge control are required. They are equipped with a microprocessor and provide high efficiency displaying the normal operation, alarm messages, etc. in a simple way with acoustic signals and display.

The solar charge and discharge controllers iSCC-L™ of ISLANDERS are programmable and provided with positive grounding. In addition to a perfect PWM regulation with integrated temperature compensation, the controllers provide fully electronic safety functions. Their multi-stage (3-stage) PWM charging method (Boost – Float – Equalization) is adjustable for different types of batteries: GEL/AGM or Flooded (Factory setting).

These solar charge and discharge controllers also come with three deep discharge functions: Low Voltage Warning (LVW), Low Voltage Disconnect (LVD) adjustable by State of Charge (SOC) or battery voltage, and automatic Low Voltage Reconnect (LVR).

The iSCC-L™ Series of ISLANDERS are equipped with 5 LEDs in order to display clearly the charging status, the state of charge of the battery and the loads status. Furthermore, these controllers are one of few controllers in their class that have an acoustic alarm before low voltage disconnection.

Thanks to their DC load output, there is no need of any inverter to power DC loads such as ultra-efficient low-voltage 12VDC or 24VDC LED NATURE Series lamps of ISLANDERS. Consequently, savings and efficiency of the solar system are increased considerably.

Available Models

iSCC-L 05 5A/5A – 12/24V 60W@12V & 120W@24V

iSCC-L 15 15A/15A – 12/24V 180W@12V & 360W@24V

iSCC-L 20 20A/20A – 12/24V 240W@12V & 480W@24V

OPTIONAL ACCESSORIES:

- REMOTE DIGITAL DISPLAY iSCC-DL of ISLANDERS
- DIN RAIL ADAPTER iSCC-DIN of ISLANDERS

Features and Benefits

- **Battery state-of-charge indication by means of 3 LEDs.**
- Load disconnect prewarning by **acoustic signal**.
- **Three-stage** (Boost, float and equalization) **PWM charging method** for lead-acid batteries (GEL/AGM and Flooded).
- **Automatic 12/24V detection.**
- **Temperature compensation.**
- **SOC- and voltage-controlled LVD.**
- **Fully electronically protected.**
- **Large terminals: up to 16mm².**
- **Positive grounding.**
- **Remote Digital Display iSCC-DL™ of ISLANDERS available (optional).**
- **DIN Rail Adapter iSCC-DIN™ of ISLANDERS available (optional).**

Industry Leading Technology for Off-Grid, Off-Shore and Backup Power Applications



iSCC-L™ Series

Specifications

Solar Charge and Discharge Controller iSCC-L Series of ISLANDERS



MODEL	iSCC-L 05	iSCC-L 15	iSCC-L 20
Nominal System Voltage	12/24 V automatic detection		
Max. Charge Current / Power (Max. PV Array Power)	5A / 60W@12V 5A / 120W@24V	15A / 180W@12V 15A / 360W@24V	20A / 240W@12V 20A / 480W@24V
Max. Discharge Current / Power	5A / 60W@12V 5A / 120W@24V	15A / 180W@12V 15A / 360W@24V	20A / 240W@12V 20A / 480W@24V
Max. Panel Voltage	30V @ 12V / 50V @ 24V		
Float Charge	13.7V @ 12V / 27.4V @ 24V (25°C)		
Main Charge	14.4V @ 12V / 28.8V @ 24V (25°C), 30min (daily)		
Boost charge	14.4V @ 12V / 28.8V @ 24V (25°C), 2h Activation: 12.3V @ 12V / 24.6V @ 24V		
Equalization	14.8V @ 12V / 29.6V @ 24V (25°C), 2h Activation: 12.1V @ 12V / 24.2V @ 24V		
Battery Type	AGM/GEL and Flooded Lead-Acid		
Deep Discharge Protection (LVD):			
- SOC dependent	11.4V – 11.9V @ 12V / 22.8V – 23.8V @ 24V		
- Voltage dependent	11.0V @ 12V / 22.0V @ 24V		
Low Voltage Reconnection (LVR) Level	12.8V @ 12V / 25.6V @ 24V		
Overvoltage Protection	15.5V @ 12V / 31.0V @ 24V		
Undervoltage Protection	10.5V @ 12V / 21.0V @ 24V		
Temperature compensation	-25mV/K @ 12V / -50mV @ 24V / (-4.2mV/K per cell)		
Own consumption	<4mA		
Terminals - Max. Wire Size	16 mm ²		
Ambient Temperature	-40 to +50 °C		
Max. Altitude	4,000 m above sea level		
Weight	160g		
Dimensions	80 x 100 x 35 mm		
Type of protection	IP22		
Standards	Conforms to the relevant European CE standards		

Optional accessory

iSCC-DL™ Series

Remote Digital Display iSCC-DL™ of ISLANDERS (OPTIONAL)

Product Overview

Remote Digital Display iSCC-DL™ of ISLANDERS can be used in combination with the solar charge and discharge

Features and Benefits

- **Measures and displays** the panel current, charging current, load current and battery voltage.
- **Clear and accurate**, data shown 3 digits.
- **3 keys** to switch the values we want to see.
- **3 LEDs** indicate the value that is shown in the display.
- **Prepared for DIN rail mounting**



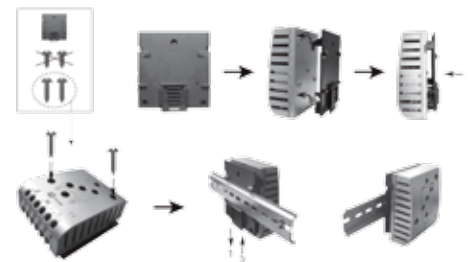
Remote Digital Display iSCC-DL™ of
ISLANDERS (OPTIONAL)

IS-2006216-GAH

MODEL	iSCC-DL
Voltage Range	0V to 35 V
Current Range	0A to 25 A
Temperature Range	-25 to +50°C
Connection cable length	2 m
Dimensions of measurement part	84 x 44 x 32 mm
Dimensions of display	72 x 68 x 29 mm
Weight	195 g (cable included)
Type of protection	IP22

iSCC-DIN™

DIN Rail Adapter iSCC-DIN™ of ISLANDERS
(OPTIONAL)



Industry Leading Technology for Off-Grid, Off-Shore and Backup Power Applications

