

iSCC-LXCom™ Series. Advanced solar charge and discharge controllers

iSCC-LXCom™ Series – XUNZEL

Hi-efficiency and reliability Smart Solar Charge and Discharge Controller.

12/24V Automatic with Communication Port

Universal: Pb-AGM/GEL/Flooded, Lithium, Calcium.

Description

- **iSCC-LXCom™ Series** are professional high-efficiency and reliable **Programmable Solar Charge and Discharge Controllers**. Load disconnection depending on State of Charge (SoC).
- **MODBUS Communications**. Open standard MODBUS communication protocol allows for control and remote data access. (RS232 Interface – RJ12 data port)
- **User-friendly LCD Display** for easy and quick status reading and programming. Manual load switch.
- **Programmable Operation Modes**: Manual ON/OFF Mode, Automatic Twilight Mode (Day/Evening/Night), Night Mode and Always-ON Mode.
- **Universal** for different Battery Technologies: Lead-Acid (AGM, Flooded, Gel), Calcium and Lithium batteries. Multistage charging technology
- With integrated Temperature compensation.
- **Low self-consumption**. Get the most of your solar panels and batteries.
- **Smart State of Charge Control (SoC)**. It Protects the battery from overcharges generated by the solar photovoltaic panels. Smart Under Voltage Protection. It protects your battery against deep discharges due to connected loads. Static (depending on the battery voltage) or dynamic (depending on the battery voltage and load) protection. Extend the life of your batteries.
- **Designed for 12V and 24V systems**. Automatic Recognition.
- Safe and reliable.
- Lightweight and compact dimensions.
- Industrial Grade Design. Ideal for Off-Grid, Off-Shore and Backup photovoltaic systems.
- Complete electronic protection functions.
- 12/24V output for feeding DC Loads directly and efficiently as no inverter is needed. Automatic load reconnection.

Models

- **iSCC-LXCom-30A - 12/24V – 450W-12V / 900W-24V**



iSCC-LXCom-30

- User-friendly LCD Display
- USB Output | 5V | 2.1A
- RJ12 communication data port
– Open standard MODBUS



Large cable entry terminals (10mm²)

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



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Technical Specifications

Model	iSCC-LXCom-30 -12/24
Code Part Number	ISCLXC30124
System Voltage	12/24V (Automatic Recognition)
Max. Photovoltaic Power	12V System: 450Wp 24V System: 900Wp
Max. Solar PV Current	30A
Max. Load Current	30A
USB Output	5V 2.1A
Battery Type (Programmable)	AGM, GEL, Flooded, Calcium, Lithium-LiFePO4
Absorption Voltage - Charge Voltage	
Flooded	14.60/29.20V
Sealed	14.40/28.80V
GEL	14.20/28.40V
Lithium (Programmable)	9.00 ~17.00V (for 25.6V LFP battery: value x 2)
Equalization Voltage	
Flooded	14.80/29.60V
Sealed	14.60/29.20V
Float Voltage	13.80/27.60V
Charging Voltage Reconnect (Lithium. Automatic)	9.00 ~ 17.00V (for 25.6V LFP battery: value x 2)
Temperature Compensation	-3.00mV/K per cell 2V
Low Battery Voltage Disconnect (Programmable)	9.00 ~ 17.00V (for 24V battery: value x 2)
Low Battery Voltage Reconnect (Automatic)	9.00 ~ 17.00V (for 24V battery: value x 2)
Max. Battery Voltage	34.00 V
Max. PV Voltage	55.00 V
Over Voltage Protection	16.00/32.00 V
Protections	Reverse polarity, short circuit, overcurrent, reverse current, over voltage, under voltage, over temperature. TVS Lighting Protection.
Dimensions / Weight	166 x 118 x 53 mm / 700g
Self-Consumption	< 20mA (12V) < 15mA (24V)
Max. Wire Size	2.5 - 10mm ² (14-6 AWG)
Ambient Temperature Range	-25°C ~ +55°C
Case Protection	IP30
Grounding	Common Negative
Max. Altitude	4000m

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