

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



User-friendly LC Display



Large cable entry terminals (16mm²)



iSCC-LX™ Series – XUNZEL

Hi-efficiency Smart Solar Charge and Discharge Controller

12/24V Automatic

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

Description

- iSCC-LX™ Series are professional high-efficiency **Programmable Solar Charge and Discharge Controllers**. Load disconnection depending on State of Charge (SoC).
- **User-friendly** LC 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
- **External Temperature Sensor included (TSLX)** for Temperature compensation.
- **2x USB 5V-2100 mA Outputs** to charge electronic devices.
- **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.
- 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-LX-20A-12/24V – 360W-12V / 720W-24V
- iSCC-LX-40A-12/24V – 720W-12V / 1440W-24V

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XU-92220226-MA

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



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

Technical Specifications

Model	iSCC-LX-20 12/24	iSCC-LX-40 12/24
Code Part Number	ISCLX20124U	ISCLX40124U
System Voltage	12/24V (Automatic Recognition)	
Max. Photovoltaic Power	12V System: 360Wp 24V System: 720Wp	12V System: 720Wp 24V System: 1440Wp
Max. Solar PV or Load Current	20A	40A
USB Outputs	2x 5V/2.1A	
Battery Type (Programmable)	AGM, GEL, Flooded, Calcium, Lithium LiFePO4	
Absorption Voltage - Charge Voltage (Lithium; Programmable)	14.50/29.00V 10.00 ~ 32.00V (Lithium)	
Equalization Voltage	14.80/29.60V	
Float Voltage	13.70/27.40V	
Charging Voltage Reconnect (Lithium. Automatic)	9.70 ~ 31.10V	
Temperature Compensation	-4.17mV/K per cell (Absorption, Equalization) / -3.33mV/K per cell (Float)	
Low Battery Voltage Disconnect (Programmable)	10.80 ~ 11.80V / 21.60 ~ 23.6V / 9.00 ~ 30.00V (Lithium)	
Low Battery Voltage Reconnect (Automatic)	11.40 ~ 12.40V / 22.20 ~ 24.20V / 10.00 ~ 33.20V (Lithium)	
Max. Battery Voltage	20.00/40.00V	
Max. PV Voltage	55V	
Over Voltage Protection	15.50/31.00V	
Protections	Reverse polarity, short circuit, overcurrent, reverse current, over voltage, under voltage, over temperature	
Dimensions / Weight	189x96x53mm / 420g	
Self-Consumption	5mA	
Max. Wire Size	16mm ² (6AWG)	
Ambient Temperature Range	-20°C ~ +50°C (-4°F ~ +122°F)	
Case Protection	IP32	
Grounding	Common Positive	
Max. Altitude	4000m	
Certifications	CE UKCA RoHs3 and REACH Compliant WEEE Compliant LVD EMC EN62509; EN55015; EN61547; EN50581:2012; EN61000-4-2; EN61000-4-3	

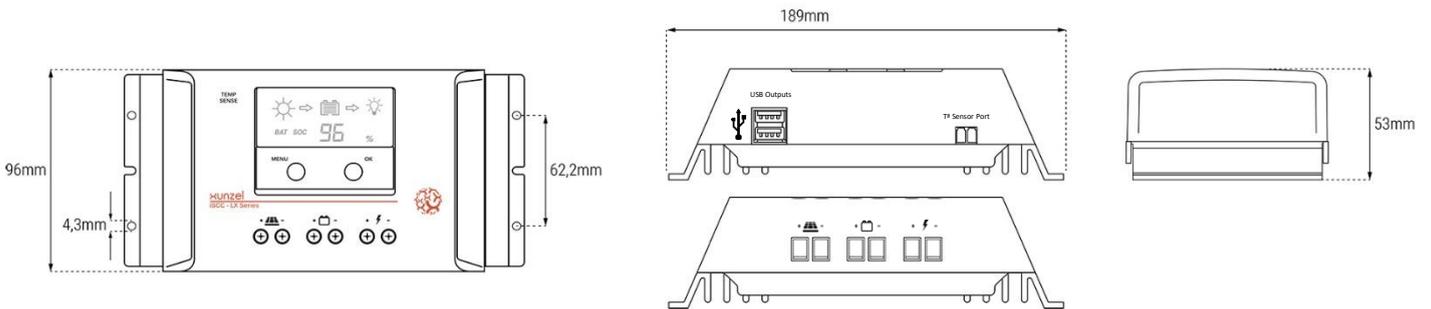
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Industry Leading Technology for Off-Grid, Off-Shore and Backup Power Applications



iSCC-LXTM Series. Advanced solar charge and discharge controllers

Technical Drawing



Model	iSCC-LX 20A 12-24V	iSCC-LX 40A 12-24V
Code Part Number	ISCCCLX20124U	ISCCCLX40124U



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