

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



iSCC-AU 15A | for 12V and 24V batteries
iSCC-AU-Lithium 15A | for 12V and 24V batteries



iSCC-AU 10A | 12V
iSCC-AU Lithium 10A | 12V



iSCC-AU 5A | 12V

iSCC-AU™ Series – XUNZEL

Smart Solar Charge and Discharge Controller

Description

- iSCC-AU™ Series are Advanced High Efficiency MCU based Programmable Solar Charge and Discharge Controllers.
- Models for different Battery Technologies. Lead-acid (GEL, AGM, Flooded), Calcium and Lithium.
- Compact and flat design allows it to fit well in small spaces.
- High Efficiency. Very low self-consumption. Microcontroller based, get the most of your solar panels and batteries.
- Protects the batteries from overcharging by the solar photovoltaic panels and from over discharging, making for a strong return on investment.
- Models suitable for 12V and 24V systems.
- With USB 5V-2100mA Output to charge electronic devices.
- Programmable Operation Modes: Manual Mode and Automatic Mode (Twilight - Day/Night).
- Clear readable LEDs display for easy and quick status reading and programming.
- Ideal for isolated stand-alone photovoltaic solar systems (Off-Grid and Off-Shore) and solar backup.
- Safe and reliable. Temperature Compensation System integrated and complete electronic automatic protections.

Available Models:

For Lead-Acid and Calcium Batteries

- iSCC-AU 5A | 12V
- iSCC-AU 10A | 12V
- iSCC-AU 15A | 12/24V

For Lithium-iron LFP-LiFePO4 Batteries

- iSCC-AU-Li 10A | 12V
- iSCC-AU-Li 15A | 12/24V

© Copyright 2022 XUNZEL™ reserves the right to make changes and improvements without prior notice. Specifications are subject to change without further notification

The design and all photos and drawings of these sheets are protected by law and may not be distributed, reproduced, in whole or in part, published or used for any purpose without the express written consent of XUNZEL. © XUNZEL - Xunzel is not responsible for possible typographical errors.

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



info@xunzel.com
www.xunzel.com

© Copyright Xunzel. Information contained in this document is subject to change without notice.

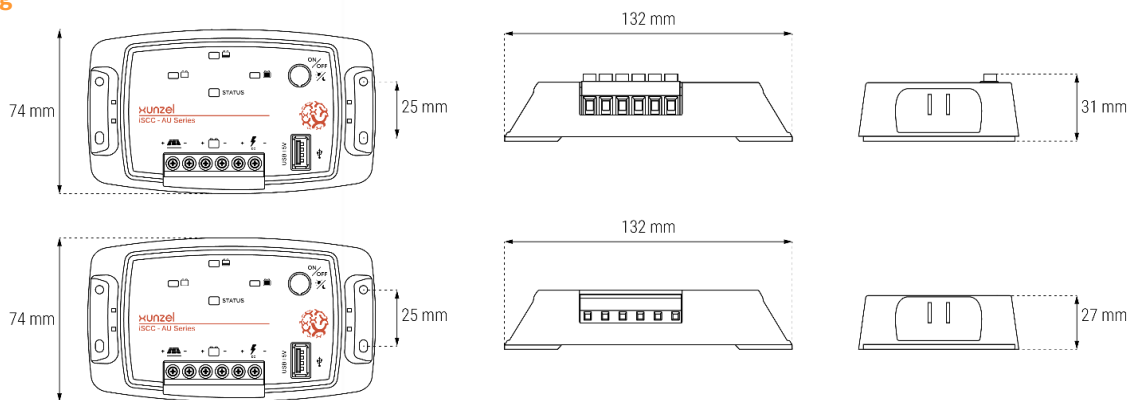
Downloaded from Arrow.com

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

Technical Specifications

Model	iSCC-AU 5A 12V	iSCC-AU 10A 12V	iSCC-AU 15A 12/24V	iSCC-AU-Li 10A 12V	iSCC-AU-Li 15A 12/24V
Code Part Number	ISCCA05	ISCCA10	ISCCA15124	ISCCA1012LI	ISCCA15124LI
System Voltage	12V		12/24V (Automatic)	12V	12/24V (Programmable)
Max. Photovoltaic Power	80Wp	150Wp	240Wp-12V 480Wp-24V	150Wp	240Wp-12V 480Wp-24V
Max. PV Solar / Load Current	5ADC / 5ADC	10ADC / 10ADC	15ADC / 15ADC	10ADC / 10ADC	15ADC / 15ADC
USB Interface	5VDC / 2100 mA				
Battery Type	AGM, GEL, Flooded (Programmable)			Lithium-iron (LFP-LiFePO4)	
Absortion Voltage -Charge Voltage (Lithium)	14.50V		14.50/29.00V	14.40V	14.40/28.80V
Equalization Voltage	14.80V		14.80/29.60V	-	-
Float Voltage	13.70V		13.70/27.40V	-	-
Charging Voltage Reconnect	-			14.00V	14.00/28.00V
Temperature Compensation	-24.00mV/K (12V System) / -48.00mV/K (24V System) (Absorption, Equalization) -20.00mV/K -24.00mV/K (12V System) / -48.00mV/K (Float)			-	-
Low Battery Voltage Disconnect	10.60V		10.60/21.20V	11.20V	11.20/22.40V
Low Battery Voltage Reconnect	11.80V		11.80/23.60V	12.00V	12.00/24.00V
Max. Battery Voltage	20V		20V/40V	20V	20/40V
Max. PV Voltage	25V		55V	25V	55V
Over Voltage Protection	15.50V		15.50V/31.00V	14.80V	14.80V/29.60V
Protections	Reverse Polarity, Short Circuit, Overcurrent, Reverse Current, Over Voltage, Under Voltage, Over Temperature				
Dimensions (LxWxH)/Weight	132x74x27mm / 100g	132x74x31mm / 100g			
Self-Consumption	<4mA		<6mA	<4mA	<6mA
Max. Wire Size	2.5mm ² (14AWG)	6mm ² (10AWG)			
Ambient Temperature Range	-40°C ~ +60°C (-40°F ~ +140°F)				
Case Protection	IP23				
Grounding	Positive				
Certifications	CE UKCA RoHs3 and REACH Compliant WEEE Compliant EN62509; EN55015; EN61547; EN50581:2012; EN61000-4-2; EN61000-4-3				

Technical Drawing



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



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

Model	iSCC-AU 5A 12V	iSCC-AU 10A 12V
Code Part Number	ISCCA05	ISCCA10



Model	iSCC-AU 15A 12/24V
Code Part Number	ISCCA15124



Model	iSCC-AU-Li 10A 12V	iSCC-AU-Li 15A 12/24V
Code Part Number	ISCCA1012LI	ISCCA15124LI



The design and all photos and drawings of these sheets are protected by law and may not be distributed, reproduced, in whole or in part, published or used for any purpose without the express written consent of XUNZEL.
© XUNZEL - Xunzel is not responsible for possible typographical errors.

© Copyright 2022 XUNZEL™ reserves the right to make changes and improvements without prior notice. Specifications are subject to change without further notification. NOT IN SCALE

XU-92220226-MA

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



info@xunzel.com
www.xunzel.com

© Copyright Xunzel. Information contained in this document is subject to change without notice.

Downloaded from [Arrow.com](https://www.arrow.com)