

## TECHNICAL SPECIFICATION

### AC12100 100A Smart Deep Cycle Battery Charger



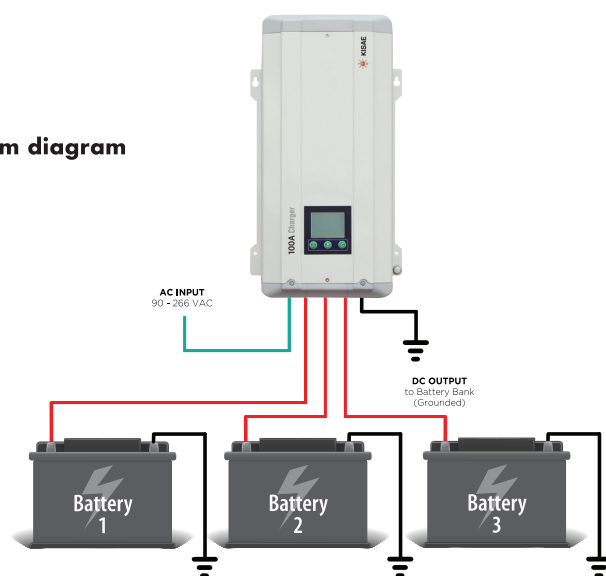
#### Product features

- Multi-stage battery charger that ensures batteries are charged to battery manufacturer's recommendations.
- Variable settings for Gel, Flooded, AGM, and Lithium batteries.
- Charges up to three battery banks simultaneously.
- Priority bank charging capability ensures main battery charges first.
- Silent mode offers quiet operation near sleeping quarters.

#### Product dimensions

Width: 9.3", Length: 16.7", Height: 4.0" (236mm x 425mm x 102.7mm)  
Base width: 9.3" (236 mm)

#### System diagram



#### Available input sockets



Specifications subject to change without notice.

## AC12100 100A Smart Deep Cycle Battery Charger

### Electrical

Output current (Total):	100A
Output Voltage Range	
Charge:	14.2 - 15.5V
Float:	13.4 - 13.8V
Equalize	16.0V
Charging Control	Three stages Charging (Bulk/Absorption/Float) Two stages Charging (Bulk/Absorption) CV, CC Power Supply (Program setting only)
DC Output Bank	Three (CH1 - CH3) CH1: Bulk/Absorption 100A max / Float 60A max CH2/3: Bulk/Absorption 100A max / Float 60A max
AC Input Voltage (Nominal)	120, 230, 240 VAC (Universal AC Input)
AC Input Operating Range	90 - 265 VAC
AC Input Frequency Range	47 - 63 Hz
Power Consumption (Full Load)	1800W
Power Factor Correction	Yes
Selectable Battery Type	Gel, AGM, Flooded, Lithium, Program (Power Supply)
Parasitic Current	< 5 mA
Charger Efficiency	> 84%

### Features

Display	LCD with backlighting to show Charging status, Battery Voltage/Current and Warning/Error Code
Automatic Recharge	Restart charging cycle automatically every 7 days
Manual Recharge	Single push button to restart charging cycle at any time
Voltage Adjustment by Temperature Setting	Manual select Temperature (Hot, Normal, Cold) for charging voltage compensation
Voltage Adjustment by Temperature Sensor	Use option Battery Temperature Sensor (BTS-10K) for charging voltage compensation
Parallel Operation	Double charging current when connect two units in parallel (use optional Remote ACRM1201)
Silent Mode	Turn fan OFF and de-rated current to ~40A
Cooling	Forced ventilation

### Protection

Reverse Battery	Protected by fuses (user replaceable)
Over Charge	Protected, unit force to shutdown by software
High Temperature	Charge Current is de-rated and/or shutdown
Output Short Circuit	Protected, charger shutdown

### AC Input and DC Output Connection

AC Input connection	Hardwire or AC Input cord (US, Schuko, UK, AUS plug)
DC Output Connection (Positive)	Heavy duty studs (3 Banks: CH1-3)
DC Output Ground Connection (Negative):	Single Heavy Duty Common Ground Stud

### Size

Dimensions (W x L x H)	9.3" x 16.7" x 4" (236mm x 425mm x 102.7mm)
Net Weight	14 lbs. / 6.4kg

### Accessories (optional)

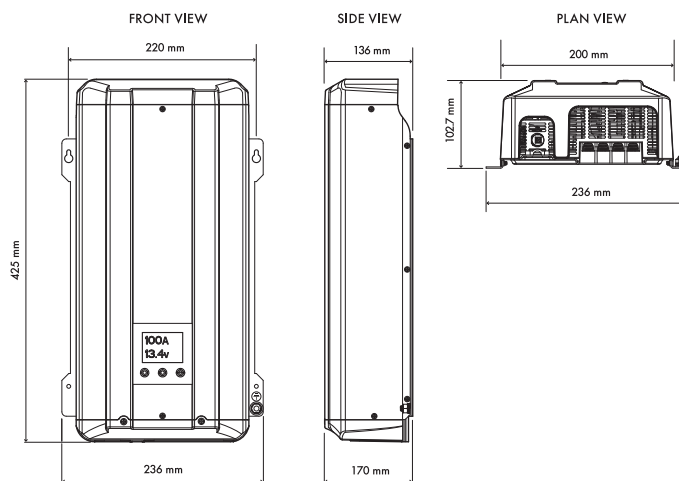
Remote Display	ACRM1201
Battery Temperature Sensor	BTS-10K

### Options

#### External Display



### Schematic Drawings



### Standard warranty

2 year warranty



This product carries a cETLus safety certification which complies with the Regulatory safety standards for North America.



Certified to meet all CE Regulatory approval standards in Europe.

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**Distributor:**

<sup>1</sup>Tested to E9-09