# RM30ASC

Issue Date: 30/10/2026

Product Data Sheet

Issued By: R&J Batteries Pty Ltd

REDMAX

## Technical Information

The REDMAX RM30ASC is a 12V/24V MPPT Solar Controller with charging profiles to suit lead acid (Wet, Gel, AGM, Calcium & Lead Crystal) as well as LFP (lithium iron phosphate), LTO (lithium titanate) & LCO (lithium cobalt oxide) batteries.

The RM30ASC has a clear digital LCD screen which can display battery voltage, charging current and the total capacity delivered. You can also monitor and control the solar controller remotely via Bluetooth using the REDMAX Connect App  The controller has integrated protection for reverse polarity, short circuit, over temperature and over/under voltage.




## Features & Benefits

- Maximum Power Point Tracking (MPPT) algorithm
- Automatically detects 12V or 24V battery systems
- 100V max voltage input with adjustable 30A max output
- Monitor and control via Bluetooth using **REDMAX Connect** App
- Reverse polarity, short circuit, over temperature and over/under voltage protection
- Included temperature sensor (lead acid profiles only)

| Applications |
|---|
| Off Road & 4x4 |
| Boating & Camping |
| Rural & Off Grid |

| Technical Specifications | | | |
|---|---|---|---|
| **Controller Type** | MPPT | **Power Terminal Max Wire Size** | 12AWG |
| **Battery Profiles** | LFP, LTO, LCO, Gel, AGM, Wet, Calcium, Lead Crystal, Custom | **Maximum Current Output** | 30A |
| **Ingress Protection** | IP43 | **Minimum Battery Voltage (12V / 24V)** | 5V / 10V |
| **Input Voltage Range** | 15-100VDC | **Bluetooth (App)** | Yes (REDMAX Connect) |
| **Nominal Solar Panel Power Rating (12V / 24V)** | 440W / 880W | **Case Material** | Polycarbonate |
| **Minimum Operating Voltage** | 8V | **Overall Size (LxWxH)** | 195 x 138 x 74.5mm |
| | | **Weight** | 1.2kg |
| **Standby Current (Night)** | 10mA ± 0.5mA | **Operating Temperature** | -25°C to 50°C |

# RM30ASC

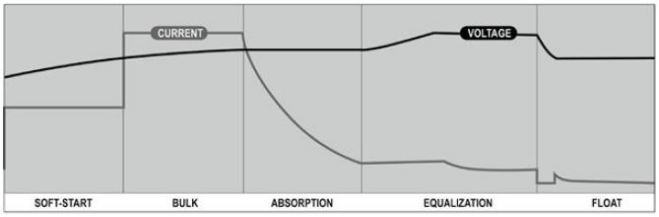
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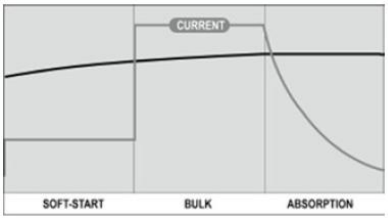
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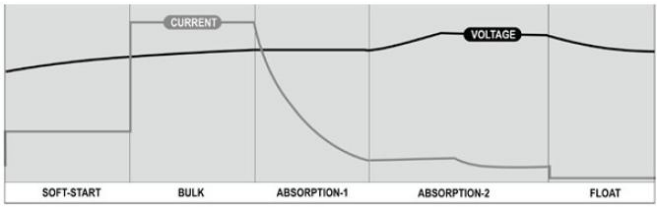
Lead Acid Batteries (Wet, Calcium, AGM & Gel)




Lithium Batteries (LCO, LFP & LTO)




Lead Crystal Batteries (Crystal)




| LED indications | | | | | | |
|---|---|---|---|---|---|---|
| LED Color | GREEN | BLUE | WHITE | WHITE | WHITE | WHITE |
| Soft-Start | ON | FLASH | FLASH | OFF | OFF | OFF |
| Bulk charge | ON | ON | ON | FLASH | OFF | OFF |
| Absorption / Equalization | ON | ON | ON | ON | ON | FLASH |
| Float charge | ON | OFF | ON | ON | ON | ON |

## Charging 12V

| | Soft Start | Bulk | Absorption 1 | Absorption 2 | Equalization | Float |
|---|---|---|---|---|---|---|
| Gel | 5-10V<br>50% Max Current | Max Current | 14.1V | - | - | 13.6V |
| AGM | | | 14.4V | - | - | 13.6V |
| Wet | | | 14.7V | - | 15.5V | 13.6V |
| Calcium | | | 14.9V | - | 15.5V | 13.6V |
| Lead Crystal | | | 14.4V | 14.7V | - | 13.6V |
| LCO | | | 12.3V | 12.6V | - | - |
| LTO | | | 13.5V | 14.0V | - | - |
| LFP | | | 14.0V | 14.2V | - | - |
| Custom | | | 13.2-15.5V | | 13.2-16.2V | 13.0-14.0V |

## Charging 24V

| | Soft Start | Bulk | Absorption 1 | Absorption 2 | Equalization | Float |
|---|---|---|---|---|---|---|
| Gel | 10-20V<br>50% Max Current | Max Current | 28.2V | - | - | 27.2V |
| AGM | | | 28.8V | - | - | 27.2V |
| Wet | | | 29.4V | - | 31.0V | 27.2V |
| Calcium | | | 29.8V | - | 31.0V | 27.2V |
| Lead Crystal | | | 28.8V | 29.4V | - | 27.2V |
| LCO | | | 24.6V | 25.2V | - | - |
| LTO | | | 27.0V | 28.0V | - | - |
| LFP | | | 28.0V | 28.4V | - | - |
| Custom | | | 26.4-31.0V | - | 26.4-32.4V | 26.0-28.0V |