

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)

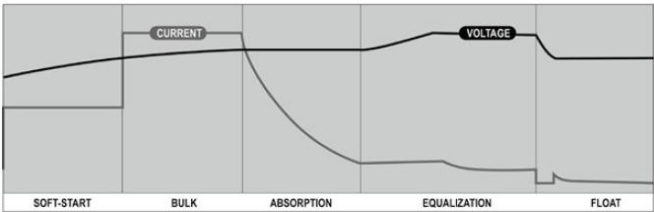
Applications

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

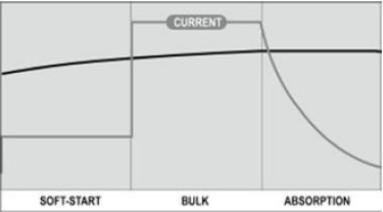
Technical Specifications

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)
Maximum 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

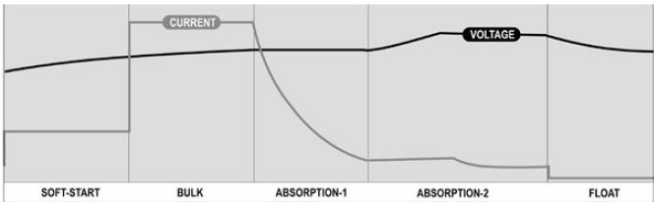
Lead Acid Batteries (Wet, Calcium, AGM & Gel)



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 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 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