

# Rolls

## AGM VRLA DEEP CYCLE BATTERY

## R12-110AGM



**M8-TP08**

Series	AGM-R	Warranty	See Warranty Terms
Volts	12	BCI	Grp 31
Cells	6		
Terminal Type		M8-TP8	
Included Hardware		Stainless Steel Nuts & Bolts	
Size & Thread		M8-TP8	

### Charge

Charge Voltage Range	14.7V @ 25°C (77°F)
Float Voltage Range	13.8V @ 25°C (77°F)
Recommended Charge Current Capacity (String)	20 A
Maximum Charge Current (String)	35 A
Self-Discharge Rate	Less than 2% per month at 25°C (77°F)
Internal Resistance	9 mΩ

### Capacity

Cold Crank Amps (CCA) 0°F / -17°C	850			
Marine Crank Amps (MCA) 32°F / 0°C	1050			
Reserve Capacity (RC @ 25A)	205 Minutes			
Reserve Capacity (RC @ 75A)	50 Minutes			
Capacity Affect by Temperature	40°C (104°F)	25°C (77°F)	0°C (32°F)	-15°C (5°F)
	102%	100%	85%	65%

Hour Rate	Capacity / AMP Hour	Current / AMPs
@ 100 Hour Rate	<b>120 AH</b>	<b>1.2 A</b>
@ 20 Hour Rate	<b>110 AH</b>	<b>5.5 A</b>
@ 10 Hour Rate	<b>90 AH</b>	<b>9 A</b>
@ 5 Hour Rate	<b>82 AH</b>	<b>16.4 A</b>

### Cut Off Voltage

### Constant Current Discharge

VPC	1 hr	2 hr	3 hr	5 hr	8 hr	10 hr
	60.6	32.5	28	16.4	10.6	9

### Specifications



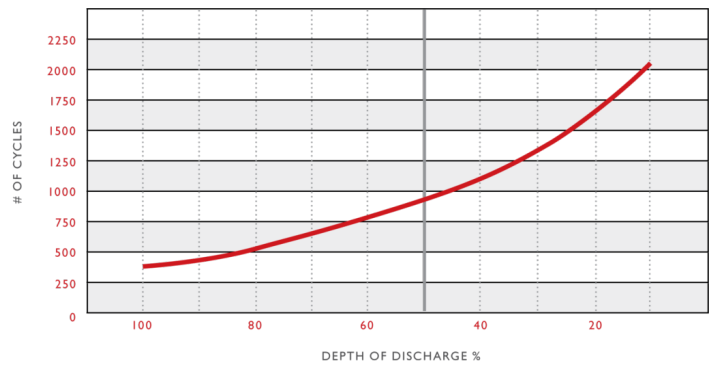
SAI GLOBAL  
ISO 9001  
Quality

Weight	30 kg	66 lbs
Length	32.8 cm	12.91"
Width	17.2 cm	6.77"
Height Inc. Term.	22 cm	8.66"

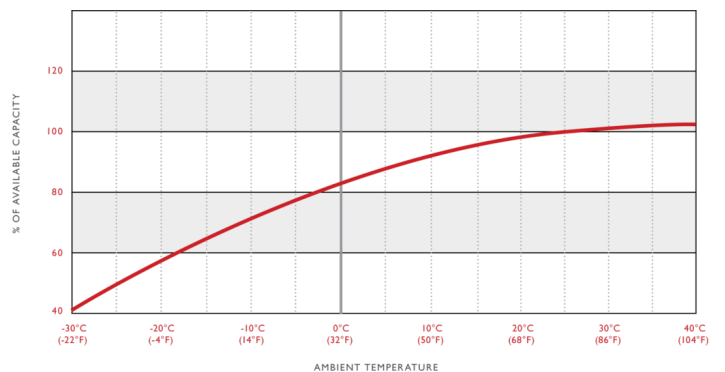
Product measurements & weights are calculated based on sample data. Individual specifications are subject to vary due to the manufacturing process, battery components & electrolyte levels.

Container	ABS
Cover	ABS
Handles	Rope / Plastic Handle

### Cycle Life vs. Depth of Discharge



### Capacity vs. Temperature



# Rolls

## AGM VRLA DEEP CYCLE BATTERY

## R12-200AGM



Series	AGM-R	Warranty	See Warranty Terms
Volts	12	BCI	4D
Cells	6		
Terminal Type		LT	
Included Hardware		Stainless Steel Nuts & Bolts	
Size & Thread		F10-M8	

### Charge

Recommended Charge Current Capacity (String)	40 A
Maximum Charge Current (String)	60 A
Self-Discharge Rate	Less than 2% per month at 25°C (77°F)

### Capacity

Cold Crank Amps (CCA) 0°F / -17°C	1300								
Marine Crank Amps (MCA) 32°F / 0°C	1500								
Reserve Capacity (RC @ 25A)	400 Minutes								
Reserve Capacity (RC @ 75A)	100 Minutes								
Capacity Affect by Temperature	<table border="1"> <tr> <td>40°C (104°F)</td> <td>25°C (77°F)</td> <td>0°C (32°F)</td> <td>-15°C (5°F)</td> </tr> <tr> <td>102%</td> <td>100%</td> <td>85%</td> <td>65%</td> </tr> </table>	40°C (104°F)	25°C (77°F)	0°C (32°F)	-15°C (5°F)	102%	100%	85%	65%
40°C (104°F)	25°C (77°F)	0°C (32°F)	-15°C (5°F)						
102%	100%	85%	65%						

Hour Rate	Capacity / AMP Hour	Current / AMPs
@ 100 Hour Rate	<b>220 AH</b>	<b>2.2 A</b>
@ 20 Hour Rate	<b>200 AH</b>	<b>10 A</b>
@ 10 Hour Rate	<b>162 AH</b>	<b>16.2 A</b>
@ 5 Hour Rate	<b>144 AH</b>	<b>28.8 A</b>

Cut Off Voltage	Constant Current Discharge					
	1 hr	2 hr	3 hr	5 hr	8 hr	10 hr
VPC	103	55.1	40.8	28.8	19.6	16.2

### Specifications



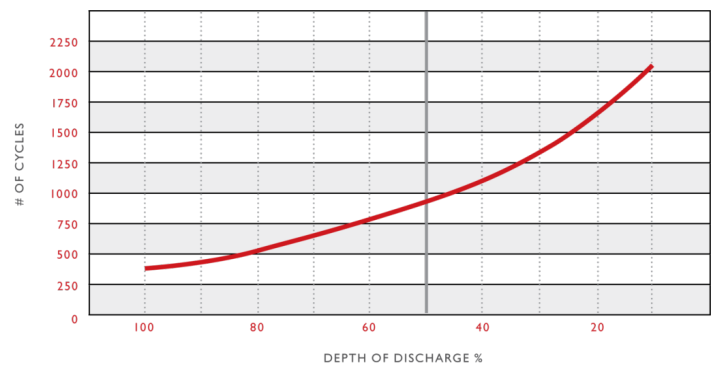
SAI GLOBAL  
ISO 9001  
Quality

Weight	55.5 kg	122.5 lbs
Length	52.2 cm	20.55"
Width	24 cm	9.45"
Height Inc. Term.	22.4 cm	8.82"

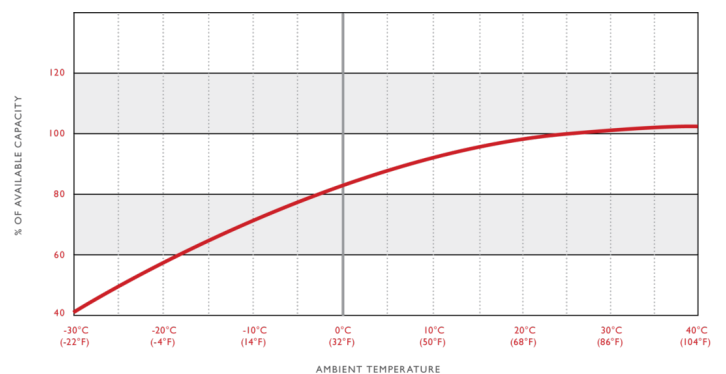
Product measurements & weights are calculated based on sample data. Individual specifications are subject to vary due to the manufacturing process, battery components & electrolyte levels.

Container	ABS
Cover	ABS
Handles	Rope

### Cycle Life vs. Depth of Discharge



### Capacity vs. Temperature



# Rolls

## AGM VRLA DEEP CYCLE BATTERY

## R12-260AGM



Series	AGM-R	Warranty	See Warranty Terms
Volts	12	BCI	8D
Cells	6		
Terminal Type		M8	
Included Hardware		Stainless Steel Nuts & Bolts	
Size & Thread		M8	

### Charge

Charge Voltage Range	14.7V @ 25°C (77°F)
Float Voltage Range	13.8V @ 25°C (77°F)
Recommended Charge Current Capacity (String)	50 A
Maximum Charge Current (String)	60 A
Self-Discharge Rate	Less than 2% per month at 25°C (77°F)

### Capacity

Cold Crank Amps (CCA) 0°F / -17°C	1550								
Marine Crank Amps (MCA) 32°F / 0°C	1850								
Reserve Capacity (RC @ 25A)	400 Minutes								
Reserve Capacity (RC @ 75A)	160 Minutes								
Capacity Affect by Temperature	<table border="1"> <tr> <td>40°C (104°F)</td> <td>25°C (77°F)</td> <td>0°C (32°F)</td> <td>-15°C (5°F)</td> </tr> <tr> <td>102%</td> <td>100%</td> <td>85%</td> <td>65%</td> </tr> </table>	40°C (104°F)	25°C (77°F)	0°C (32°F)	-15°C (5°F)	102%	100%	85%	65%
40°C (104°F)	25°C (77°F)	0°C (32°F)	-15°C (5°F)						
102%	100%	85%	65%						

Hour Rate	Capacity / AMP Hour	Current / AMPs
@ 100 Hour Rate	<b>290 AH</b>	<b>2.9 A</b>
@ 20 Hour Rate	<b>260 AH</b>	<b>13 A</b>
@ 10 Hour Rate	<b>200 AH</b>	<b>20 A</b>
@ 5 Hour Rate	<b>185 AH</b>	<b>37 A</b>

Cut Off Voltage	Constant Current Discharge					
	1 hr	2 hr	3 hr	5 hr	8 hr	10 hr
VPC	130	96	56	38	81	21.6

### Specifications



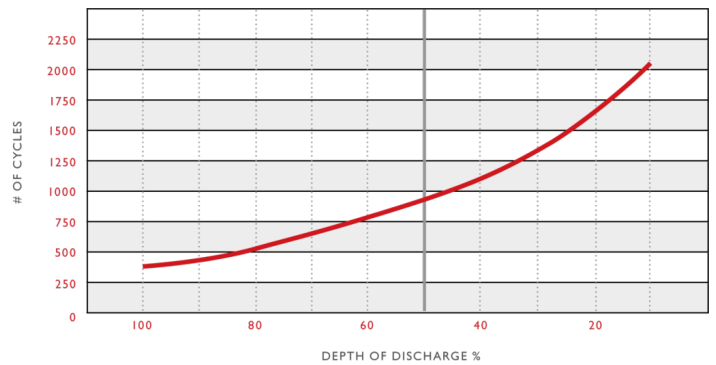
SAI GLOBAL  
ISO 9001  
Quality

Weight	73 kg	161 lbs
Length	52.2 cm	20.55"
Width	26.8 cm	10.55"
Height Inc. Term.	22.4 cm	8.82"

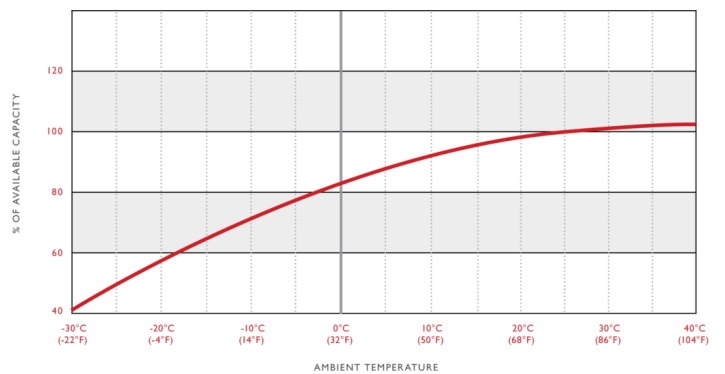
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Container	ABS
Cover	ABS
Handles	Rope

### Cycle Life vs. Depth of Discharge



### Capacity vs. Temperature



## Warranty Terms and Conditions For Batteries

### One Year limited warranty from Date of Purchase

In case of a battery warranty need the following information:

- Information about the system
- Photos
- BMV historical data (without BMV no warranty). A Battery Monitor has to purchase along with the battery to avoid warranty issues.

The warranty does not cover cracked covers, cracked cases, bulged cases from heat, freezing or explosion, discharged batteries or the use of undersized batteries damaged from electrical equipment.

This warranty covers only manufacturing defects.

The Company makes no warranty with respect to its batteries other than the warranty stated above. All implied warranties of merchantability and all expressed and implied warranties of any other kind are hereby excluded.

### **Batteries**

Batteries are one of the most important external factors.

The battery cabling needs to be of a suitable thickness. The fuses, battery isolators and battery connections need to be in good shape and all cable connections need to be clean and tight. If any of these are of sub-standard quality a voltage loss and/or a ripple voltage can occur. This will cause a Victron product to shut down. Please see the product manual for a table on recommended battery cable thicknesses.

Batteries can cause a lot of strange symptoms in a Victron product when the battery is:

- Empty or almost empty
- Capacity too small
- Bad quality or too old
- Too hot or too cold

A battery problem can make a Victron product appear to be faulty. In case of a Multi you can see: a totally dead unit, a low battery light or the overload and low battery light blink or light up simultaneously. In this case the first point of action is to measure the battery voltage under no load and under load. If the battery voltage drops significantly under load the batteries are empty or faulty.

Undercharged batteries are most often due to a large DC load in the system. The DC loads in a system can consume more power than the Multi or the charger can deliver. Another reason for undercharged batteries can be that the batteries are too large for the charger. Overcharged batteries can be caused by a very small or faulty battery bank.