

# SUNLIGHT AccuForce 12V-115Ah S

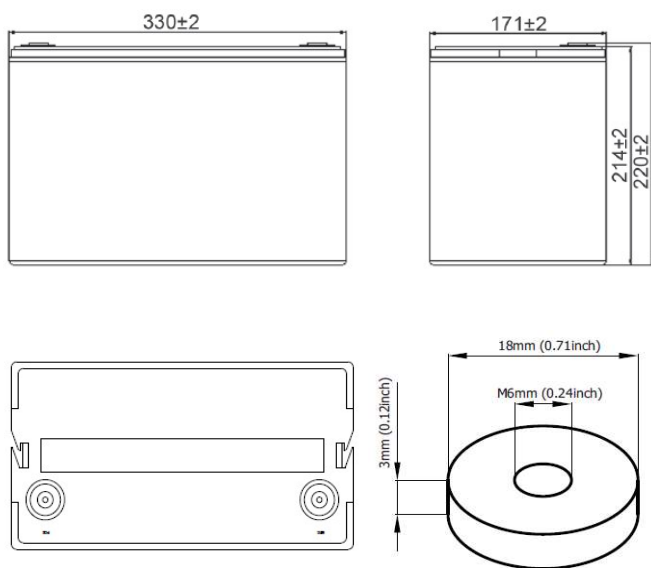
AGM VRLA Battery

## Features & Benefits

- Solar / Wind power systems
- Residential installations
- Golf carts and electric powered vehicles
- Marine equipment
- Electric wheelchairs
- Traffic systems (signaling and lighting)
- Remote monitoring and controlling
- Power tools and cleaning machines
- Uninterruptible power supply (UPS)

## Specifications

Nominal Voltage	12 V
Number of cells	6
Cycle Life	Approx. 800 cycles at 50% DOD
Dimensions	Length 330 mm
	Width 171 mm
	Height 214 mm
	Total Height 220 mm
Weight	27.5 kg
	120 hours rate (1.85Vpc) 118.8 Ah
Nominal Capacity (25°C)	100 hours rate (1.85Vpc) 117.0 Ah
	48 hours rate (1.80Vpc) 110.4 Ah
	10 hour rate (1.80Vpc) 99.8 Ah
	Internal Resistance (fully charged, 25°C) 4.5 mOhm
Self Discharge	less than 3% per month at 25°C
Nominal Operating Temperature	25°C
Operating Temperature range	Discharge -15°C to 45°C
	Charge 0°C to 40°C
	Storage -15°C to 40°C
Float Charging Voltage	2.27 to 2.30 V/cell at 25°C Temperature compensation -18mV/°C
Cyclic Charging Voltage	2.40 to 2.47 V/cell at 25°C Temperature compensation -30mV/°C
Maximum charging current	30 A
Maximum discharge current	850 A (5 sec.)
Short circuit current	1300 A



## Performance Data

### Discharge Constant Current at 25°C (Amperes)

End Voltage V/cell	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h	48h	72h	100h	120h
1.60 V	158	96.9	60.0	35.7	24.9	20.5	17.7	15.3	12.1	10.20	5.33	---	---	---	---
1.65 V	154	94.9	59.2	35.5	24.8	20.4	17.5	15.0	12.1	10.20	5.32	---	---	---	---
1.70 V	148	92.0	57.6	35.2	24.6	20.2	17.4	15.0	12.0	10.10	5.31	2.33	---	---	---
1.75 V	144	89.8	56.5	34.7	24.5	20.1	17.4	15.2	11.9	10.10	5.28	2.32	1.56	---	---
1.80 V	136	86.5	54.7	33.9	23.8	19.5	16.9	14.7	11.5	9.98	5.24	2.30	1.55	---	---
1.85 V	128	81.2	51.4	31.9	22.4	18.3	15.8	13.7	10.8	9.38	4.93	2.16	1.46	1.17	0.99

### Discharge Constant Power at 25°C (Watts/cell)

End Voltage V/cell	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h	48h	72h	100h	120h
1.60 V	289	181	114.0	68.9	48.9	40.2	34.8	30.2	23.9	20.3	10.70	---	---	---	---
1.65 V	283	178	112.0	68.6	48.6	39.9	34.6	30.0	23.9	20.2	10.70	---	---	---	---
1.70 V	272	172	110.0	67.9	48.3	39.7	34.3	29.8	23.7	20.2	10.60	4.67	---	---	---
1.75 V	263	168	107.0	67.1	47.9	39.4	34.1	29.5	23.5	20.0	10.60	4.64	3.12	---	---
1.80 V	249	162	104.0	65.2	46.4	38.2	33.1	28.6	22.7	19.8	10.50	4.60	3.11	---	---
1.85 V	234	152	97.5	61.4	43.7	35.8	31.1	26.7	21.3	18.6	9.84	4.33	2.91	2.32	1.98

## SYSTEMS SUNLIGHT S.A.

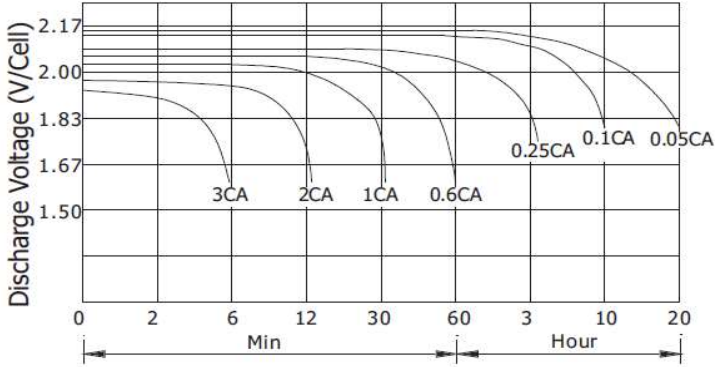
Headquarters 8, Thivaidos & Sfiggos Street | 145 64 Kifissia | Greece  
 Manufacturing Plant Neo Olvio | 672 00 Xanthi | Greece  
 Recycling Plant Industrial Area of Komotini | 691 00 Komotini | Greece  
 Southeast Europe Industrial Sales 14B Menexedon Street | 145 64 Kato Kifissia | Greece

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 Sunlight Industrial SRL 111-115, Timisoara Boulevard | 061327 Bucharest | Romania  
[www.systems-sunlight.com](http://www.systems-sunlight.com)

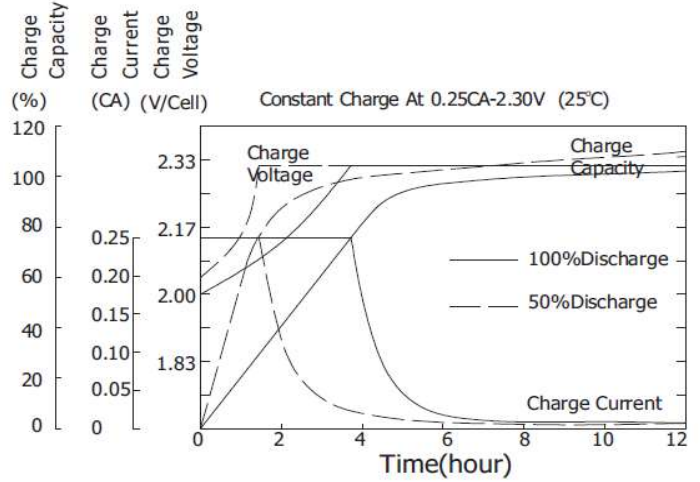
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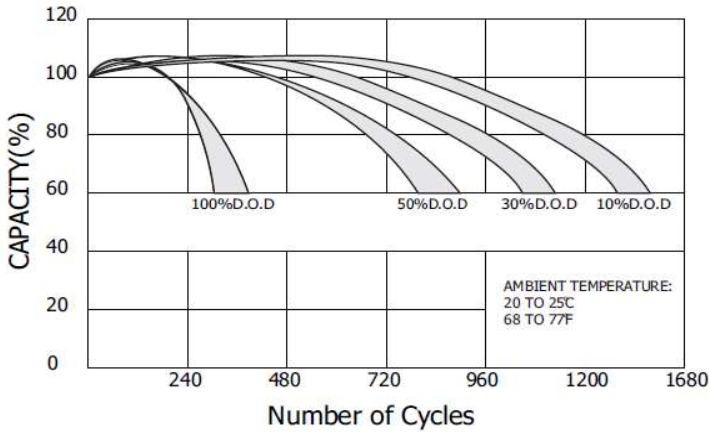
## Discharge Characteristics (25°C)



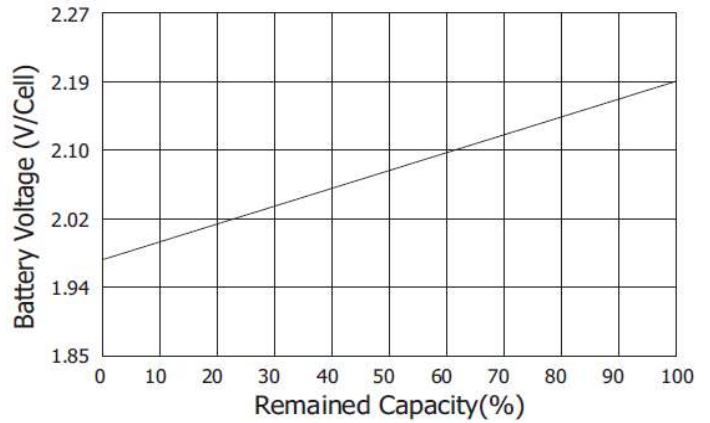
## Charging Characteristics (25°C)



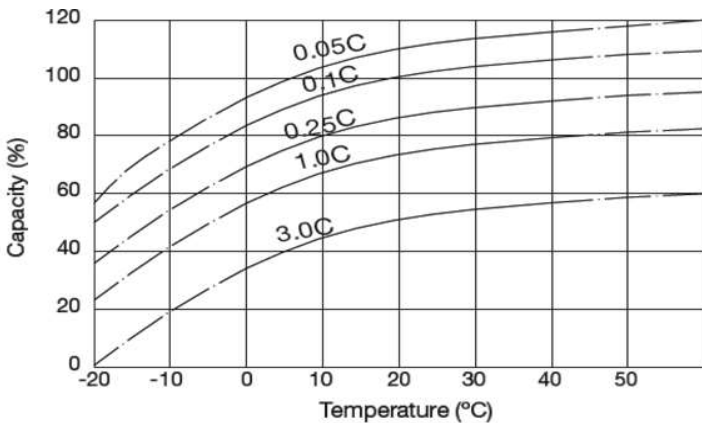
## Cycle Service Life in Relation to Depth of Discharge



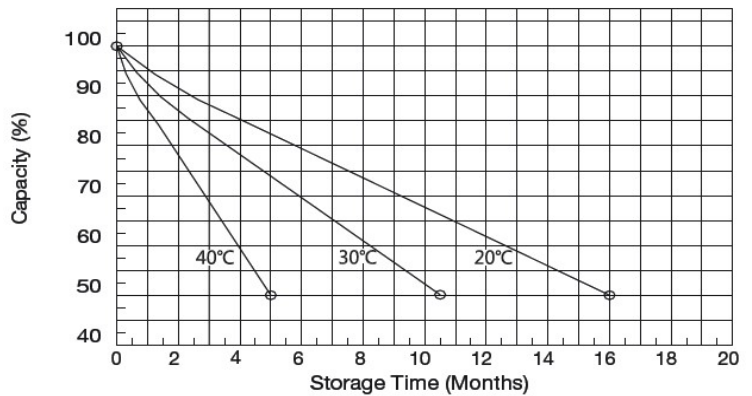
## Relationship Between OCV and Residual Capacity (25°C)



## Temperature Effects on Capacity



## Self Discharge Characteristics



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