

SUNLIGHT AccuForce 12V-35Ah S

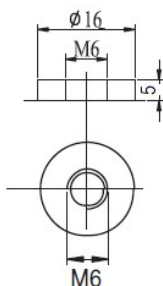
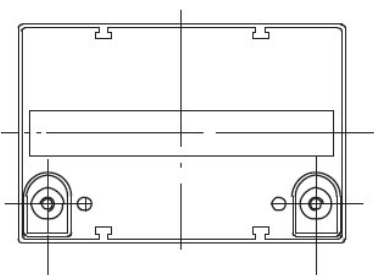
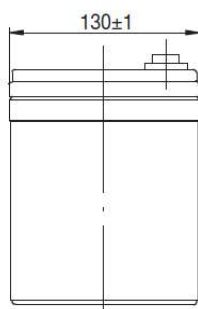
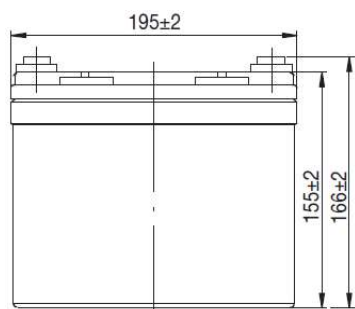
AGM VRLA Battery

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 195 mm
	Width 130 mm
	Height 155 mm
	Total Height 166 mm
Weight	9.5 kg
	120 hours rate (1.85Vpc) 36.00 Ah
Nominal Capacity (25°C)	100 hours rate (1.85Vpc) 35.00 Ah
	48 hours rate (1.80Vpc) 36.48 Ah
	10 hour rate (1.80Vpc) 33.40 Ah
	Internal Resistance (fully charged, 25°C) 11 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 -20mV/°C
	2.40 to 2.47 V/cell at 25°C Temperature compensation -30mV/°C
Cyclic Charging Voltage	
Maximum charging current	10.5 A
Maximum discharge current	300 A (5 sec.)
Short circuit current	450 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	55.7	33.7	20.8	12.1	8.51	6.98	5.98	5.18	4.07	3.41	1.78	----	----	----	----
1.65 V	54.4	33.1	20.6	12.1	8.47	6.94	5.90	5.11	4.07	3.41	1.78	----	----	----	----
1.70 V	52.4	32.0	20.0	12.0	8.41	6.87	5.87	5.11	4.03	3.37	1.78	0.78	----	----	----
1.75 V	50.3	31.2	19.6	11.8	8.34	6.84	5.84	5.08	4.00	3.37	1.77	0.77	0.53	----	----
1.80 V	47.7	30.1	19.0	11.5	8.11	6.64	5.67	4.90	3.87	3.34	1.75	0.76	0.52	----	----
1.85 V	45.1	28.5	18.0	10.9	7.68	6.27	5.36	4.65	3.64	3.13	1.62	0.72	0.49	0.35	0.30

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	102.0	62.6	39.6	23.4	16.5	13.5	11.7	10.10	8.06	6.71	3.55	----	----	----	----
1.65 V	99.3	61.4	39.1	23.3	16.5	13.5	11.6	10.00	8.06	6.71	3.55	----	----	----	----
1.70 V	95.8	59.7	38.1	23.1	16.4	13.4	11.5	10.00	7.99	6.66	3.55	1.54	----	----	----
1.75 V	92.4	58.4	37.4	22.8	16.3	13.3	11.4	9.90	7.94	6.66	3.53	1.53	1.04	----	----
1.80 V	87.5	56.3	36.3	22.3	15.8	13.0	11.2	9.68	7.65	6.61	3.50	1.52	1.03	----	----
1.85 V	83.0	53.5	34.4	21.1	15.0	12.3	10.6	9.18	7.25	6.27	3.31	1.44	0.98	0.71	0.60

SYSTEMS SUNLIGHT S.A.

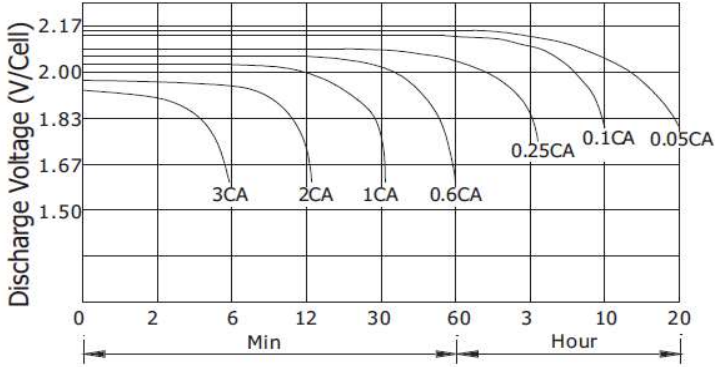
Headquarters 8, Thivaidos & Sfiggos Street | 145 64 Kifissia | Greece
 Manufacturing Plant Neo Olvio | 672 00 Xanthi | Greece
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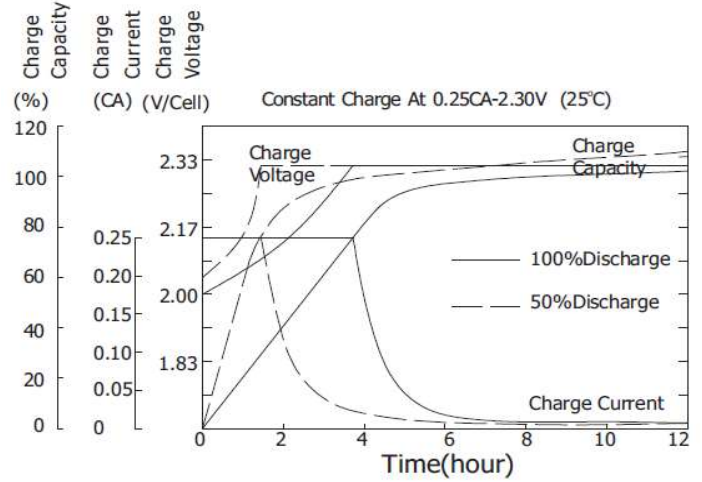
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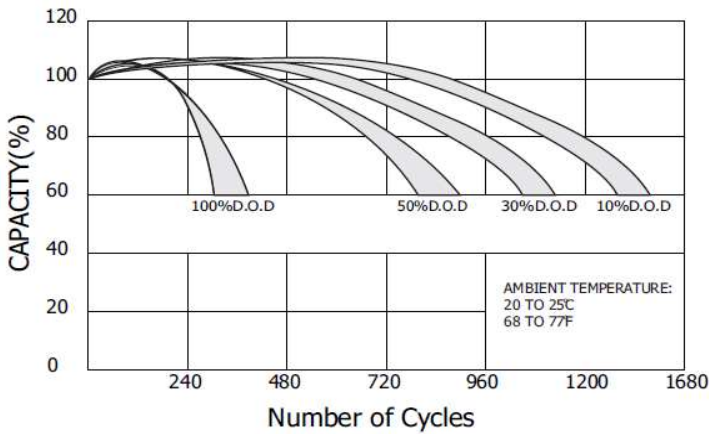
Discharge Characteristics (25°C)



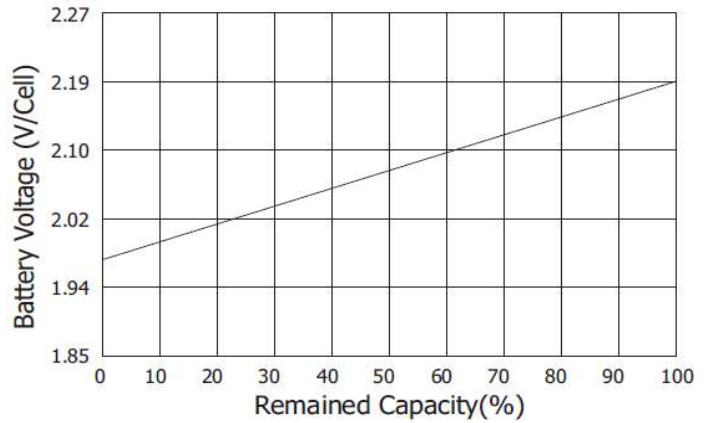
Charging Characteristics (25°C)



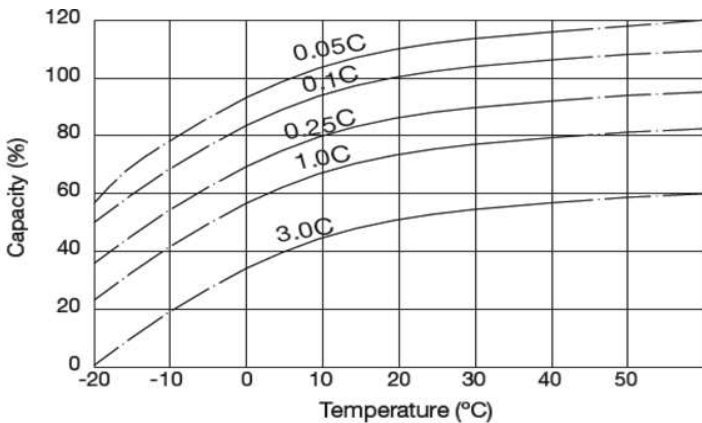
Cycle Service Life in Relation to Depth of Discharge



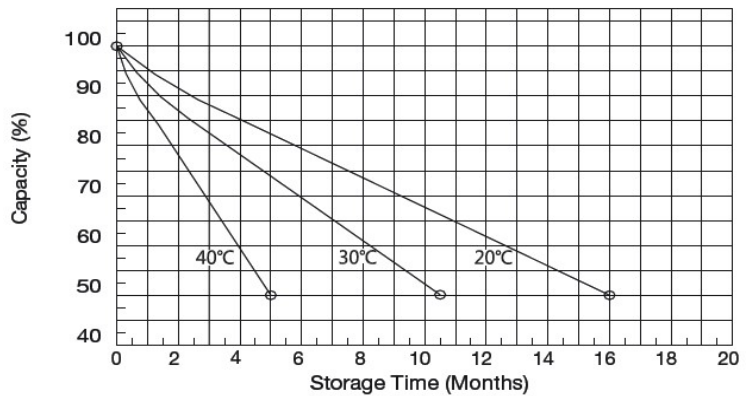
Relationship Between OCV and Residual Capacity (25°C)



Temperature Effects on Capacity



Self Discharge Characteristics



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