

6-EVG-100

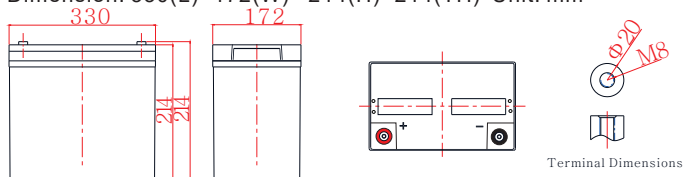


General Features

- Nanosilica colloidal electrolyte and high tin positive plate alloy design to enhance battery performance
- Relatively rich electrolyte, high temperature and low temperature performance is superior
- Long cycle life, excellent deep cycle discharge ability
- Excellent charge acceptance ability
- Precision sealing technology
- Long life, the cycle life of AGM-GEL will increase by 20%-30% compared to the AGM Deep Cycle series



Dimension: 330(L)×172(W)×214(H)×214(TH) Unit: mm



EVG Series AGM-GEL Battery

Applications

- Wheel chair, Golf Cart
- Solar Systems
- Telecom systems
- Cable TV Systems
- Emergency
- Power System

Specification

Nominal Voltage	12V
Nominal Capacity	100Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx 32kg (Tolerance ±3%)
Container Material	ABS
Rated Capacity	114Ah 10Hour Rate (11.4A to 10.5V)
	110.0Ah 5Hour Rate (22.0A to 10.5V)
	99.9Ah 3Hour Rate (33.3A to 10.5V)
	45.3Ah 1Hour Rate (45.3A to 10.5V)
Operating Temperature	Discharge: -40 ~60℃ (-40 ~ 140°F)
	Charge: -20 ~50℃ (-4 ~ 122°F)
	Storage: -20 ~50℃ (-4 ~ 122°F)
Charge Method (25 °C)	Float Use: 13.7-13.9V@25℃
	Cycle Use : 14.7-14.9V, @25℃
	Max charge current 20.0A
Self discharge	3% of capacity declined per month at 25℃

Constant Current Discharge Characteristics Unit: A (25℃, 77°F)

F.V/Time	5Min	15Min	30Min	1h	2h	3h	5h	8h	10h	20h
1.60V	426	228	139	81.3	46.6	34.6	22.8	14.6	11.8	6.35
1.65V	413	222	137	80.8	46.4	34.2	22.5	14.4	11.6	6.31
1.70V	396	217	134	80.3	46.0	33.7	22.3	14.3	11.6	6.28
1.75V	364	210	133	79.1	45.3	33.3	22.0	14.2	11.4	6.25
1.80V	327	196	128	77.0	44.5	33.1	21.4	14.1	11.3	6.22
1.85V	291	174	116	71.3	42.3	31.2	20.3	13.5	11.0	6.12

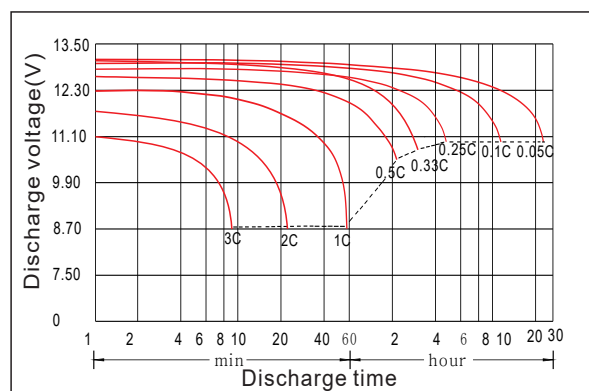
Constant Power Discharge Characteristics Unit: W/cell(25℃, 77°F)

F.V/Time	5Min	15Min	30Min	1h	2h	3h	5h	8h	10h	20h
1.60V	713	403	252	153	88.3	65.8	43.1	28.3	22.8	12.4
1.65V	686	396	249	153	88.3	64.9	42.8	28.1	22.6	12.3
1.70V	683	391	249	152	87.5	64.5	42.5	27.9	22.3	12.3
1.75V	637	388	248	150	87.5	64.2	42.3	27.8	22.1	12.3
1.80V	584	368	243	149	86.7	63.9	41.8	27.5	21.9	12.2
1.85V	522	328	222	138	83.3	60.8	39.9	26.6	21.6	12.1

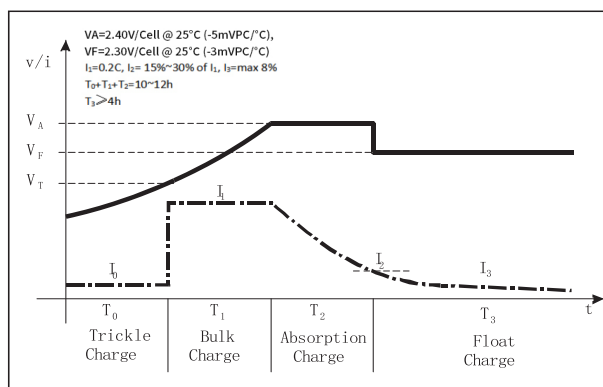
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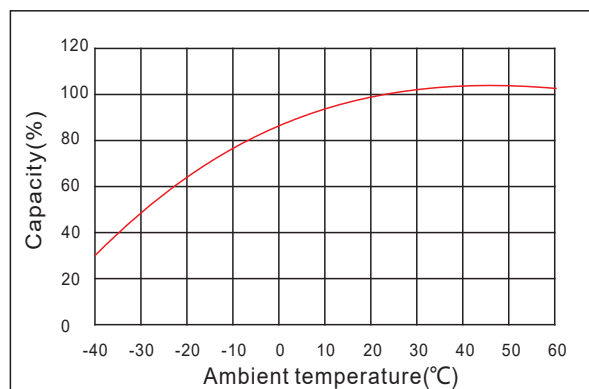
Discharge characteristic



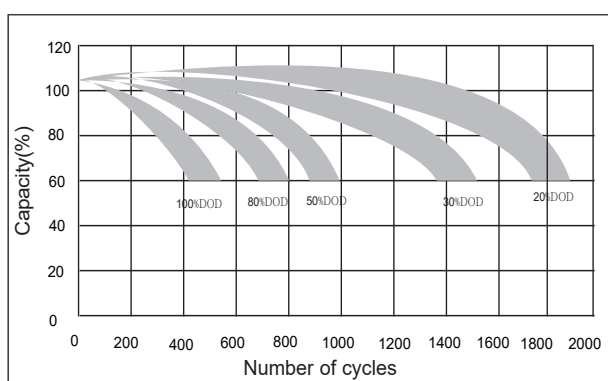
Charging characteristic



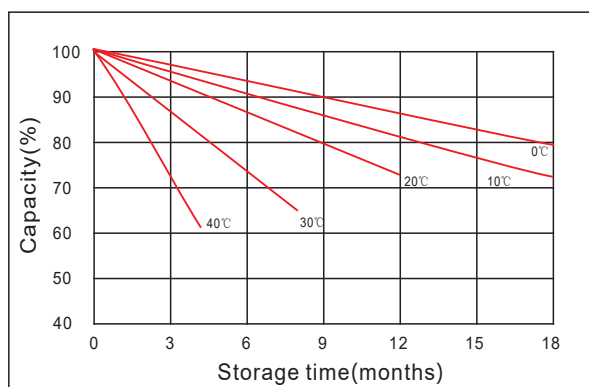
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity

