

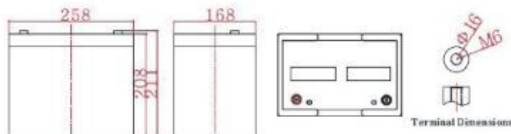


### GENERAL FEATURES

- 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



Dimension: 258(L)×168(W)×208(H)×211(TH) Unit: mm



### SPECIFICATION

Nominal Voltage	12 V
Nominal Capacity	80 Ah
Design Life	12 Years
Terminal	M6
Approx. Weight	Approx 24.0 Kg (52.9 lbs)
Container Material	ABS
Rated Capacity	80.0 Ah 10 Hour Rate (8.00 A to 10.8 V) 63.3 Ah 3 Hour Rate (21.1 A to 10.8 V) 51.3 Ah 1 Hour Rate (51.3 A to 10.5 V)
Internal Resistance	Full charged at 25°C: 7.8 mΩ
Max. Discharge Current	960A (5S)
Operating Temperature	Discharge : -40 ~60°C (-40~ 140°F) Charge : -20 ~50°C (-4~ 122°F) Storage : -20 ~50°C (-4~ 122°F)
Charge Method (25 °C)	Charge current: Max. 20.0A; Recom. 8.0A Float Charge: 13.5-13.8V, recom.13.5V(-18mV/ °C) Equalize charge: 13.8-14.1V, recom.14.1V(-24mV/ °C) Cycle charge: 14.4-15.0V, recom.14.4V(-30mV/ °C)
Self Discharge	3 % of capacity declined per month at 25°C

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

FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	147	89.4	52.8	30.3	22.0	14.8	9.68	8.28	4.35
1.65V	142	87.8	52.5	30.1	21.7	14.6	9.60	8.20	4.32
1.70V	139	86.3	52.1	29.9	21.4	14.4	9.53	8.12	4.30
1.75V	135	85.6	51.3	29.4	21.2	14.3	9.45	8.04	4.28
1.80V	126	81.8	50.0	28.9	21.1	13.9	9.37	8.00	4.26
1.85V	112	74.7	46.3	27.4	19.8	13.2	8.99	7.72	4.19

Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

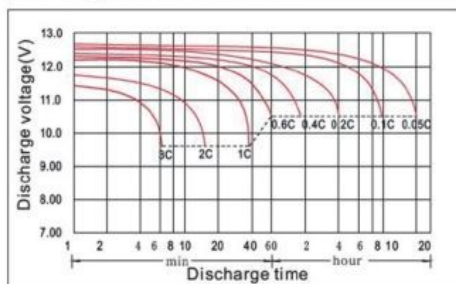
### Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)

FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	259	162	99.8	57.2	41.8	28.0	18.8	15.9	8.60
1.65V	254	160	99.0	57.1	41.3	27.8	18.7	15.8	8.56
1.70V	251	160	98.3	56.9	41.0	27.6	18.6	15.6	8.52
1.75V	250	159	97.5	56.5	40.8	27.4	18.4	15.4	8.48
1.80V	236	156	96.7	56.4	40.6	27.1	18.3	15.3	8.44
1.85V	211	143	89.8	53.9	38.6	25.9	17.7	15.0	8.36

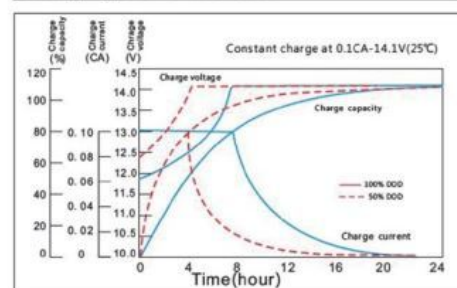
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### PERFORMANCE CHARACTERISTICS

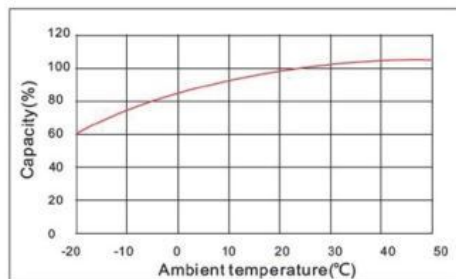
Discharge characteristic



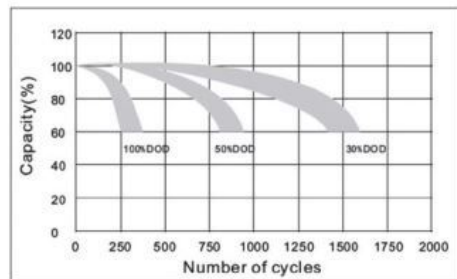
Charging characteristic



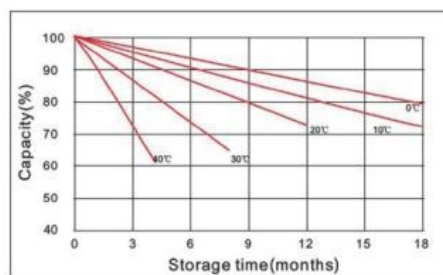
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life

