

DEEP CYCLE GEL BATTERY

MG26-12

Applications

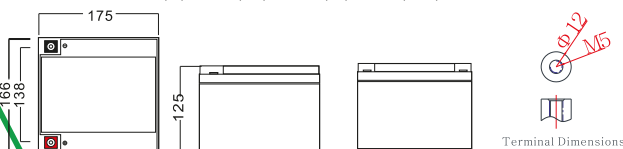
- › Solar / wind energy and other new energy storage
- › UPS/EPS
- › Power systems
- › Telecommunications system
- › Emergency lighting、Auto control system
- › Other general purpose

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: 166(L)×175(W)×125(H)×125(TH) Unit: mm



Specification

Nominal Voltage	12V
Nominal Capacity	26Ah
Design life	5 years
Terminal	M5
Approx. Weight	Approx8.50kg (18.4lbs)
Container Material	ABS
Rated Capacity	26.0Ah 10Hour Rate (2.60A to 10.5V)
	19.8Ah 3Hour Rate (6.60A to 10.5V)
	16.8Ah 1Hour Rate (16.8A to 9.60V)
Internal resistance	Full charged at 25°C: 16.0 mΩ
Max. Discharge Current	390A(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. 6.5A ; Recom.2.6A
	Float Charge:13.5-13.8V,recom.13.5V(-18mV/ °C)
	Equalize charge:13.8-14.1V,recom.14.1V(-24mV/ °C)
Self discharge	Cycle charge:14.4-15.0V,recom.14.4V(-30mV/ °C)
	3% of capacity declined per month at 25°C

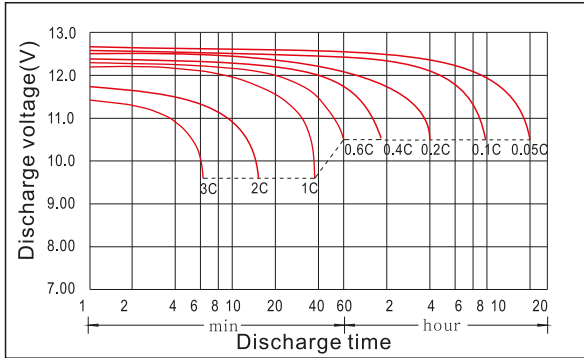
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

FV/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	99.9	65.3	48.7	31.9	16.8	9.63	7.03	5.63	4.79	3.16	2.56	1.38
1.65V	99.1	62.5	44.6	30.3	15.8	9.25	6.83	5.45	4.69	3.11	2.54	1.35
1.70V	81.2	58.8	41.6	29.4	15.3	9.07	6.70	5.17	4.64	3.06	2.48	1.32
1.75V	75.4	56.0	38.8	28.7	14.8	8.84	6.60	5.10	4.43	2.98	2.43	1.30
1.80V	69.4	52.7	36.1	27.7	14.2	8.61	6.24	4.99	4.26	2.90	2.38	1.25

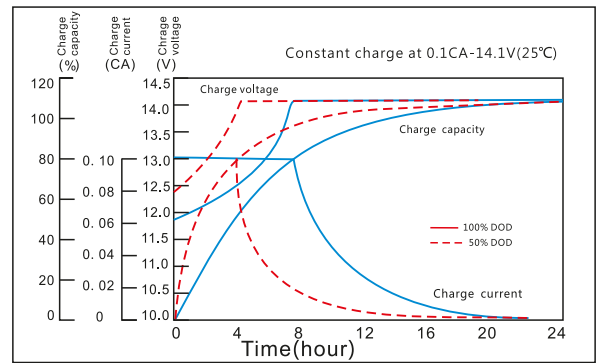
Constant Power Discharge Characteristics Unit: W/cell(25°C, 77°F)

FV/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	187	118	89.1	53.9	30.8	18.0	13.3	10.7	9.05	5.96	4.96	2.72
1.65V	173	111	83.6	53.5	29.0	17.4	12.9	10.3	8.88	5.87	4.87	2.65
1.70V	158	108	79.9	53.3	28.1	17.0	12.7	9.81	8.62	5.81	4.83	2.63
1.75V	143	105	76.9	52.8	27.3	16.6	12.5	9.68	8.45	5.58	4.72	2.57
1.80V	129	101	73.6	52.4	26.9	16.5	12.2	9.60	8.24	5.39	4.62	2.56

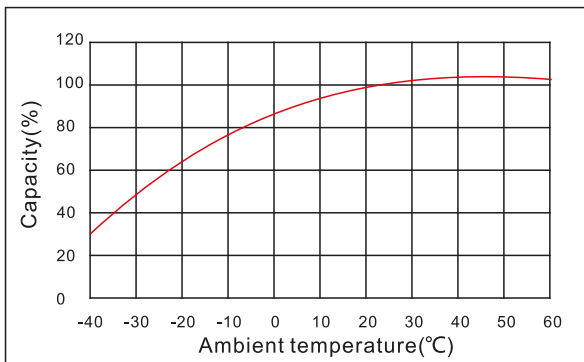
Discharge characteristic



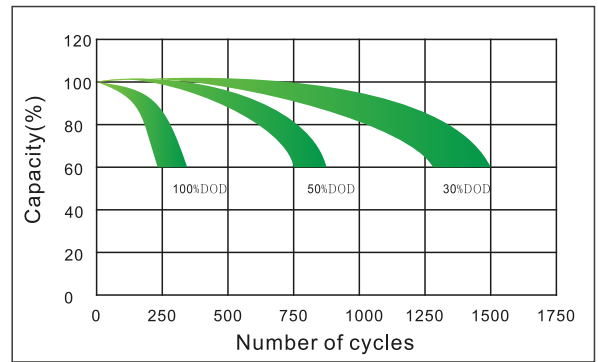
Charging characteristic



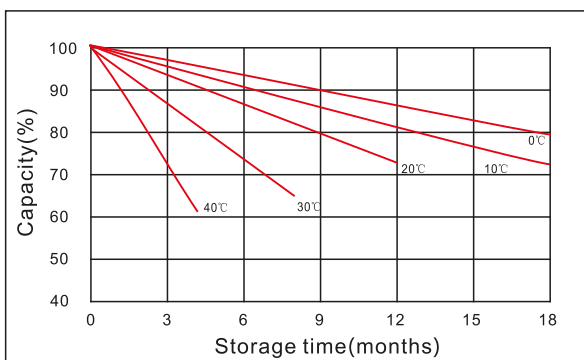
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity

