

# TECHNICAL DATA SHEET

## DGY12-135

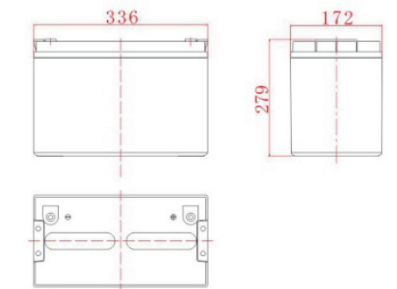


### General Features

- › 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
- › Designed life : 12 years

### Dimension and Weight

Length	336mm±1.5mm
Width	172mm±1.5mm
Height	279mm±1.5mm
Total Height	279mm±1.5mm
Weight	44.5kg



Terminal Dimensions

### Applications

- Electric vehicle
- Electric wheelchair
- Electric scooter
- Electric play car for children
- Garbage truck
- Patrol car

### Product Specification

Nominal Voltage:

12V

Rated Capacity:

10Hour Rate	158Ah
3Hour Rate	135.5Ah
1Hour Rate	108Ah

Self discharge Rage:

3%/month(25°C)

Operating Temperature Range:

Discharge	-20°C~50°C(-4°F~122°F)
Charge	-20°C~50°C(-4°F~122°F)
Storage	-20°C~50°C(-4°F~122°F)

Charging Methods:

Floating Use	13.7V~13.9V(25°C)
Cycling Use	14.7V~14.9V(25°C)
Max Charge Current	20A

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

F.V/Time	5M	15M	30M	1h	2h	3h	5h	8h	10h	20h
1.60V	574	308	188	110	62.9	46.6	30.6	19.6	16.1	8.47
1.65V	556	299	184	109	62.6	46.1	30.3	19.5	16.0	8.42
1.70V	534	293	181	108	62.1	45.5	30.0	19.3	15.8	8.38
1.75V	491	283	180	107	61.1	45.0	29.7	19.2	15.7	8.34
1.80V	440	264	172	104	60.0	44.6	28.9	19.0	15.5	8.30
1.85V	393	235	157	96.2	57.0	42.0	27.5	18.2	15.0	8.16

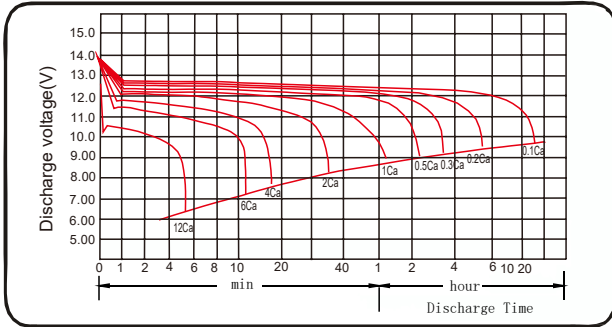
### Constant Power t Discharge Characteristics Unit: W/cell (25°C, 77°F)

F.V/Time	5M	15M	30M	1h	2h	3h	5h	8h	10h	20h
1.60V	962	543	339	207	119	88.6	58.1	38.2	31.0	16.8
1.65V	925	534	336	206	119	87.5	57.8	37.9	30.7	16.7
1.70V	921	527	336	204	118	87.0	57.3	37.7	30.4	16.6
1.75V	858	524	335	203	117	86.5	57.0	37.4	30.1	16.5
1.80V	788	495	327	201	117	86.2	56.3	37.1	29.8	16.4
1.85V	704	443	299	187	112	82.0	53.8	35.8	29.3	16.3

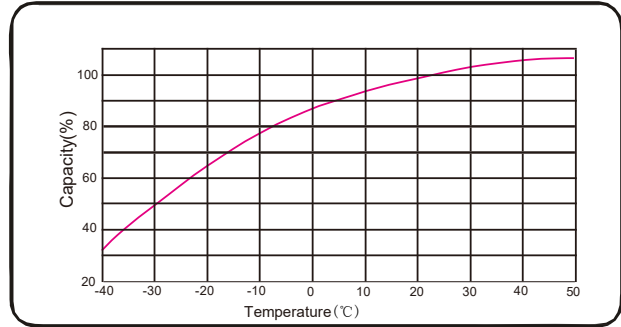
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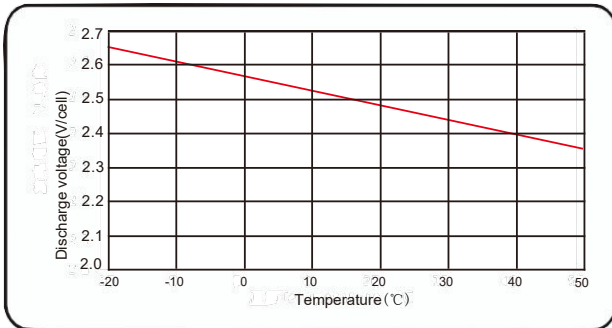
Discharge Characteristic Curve



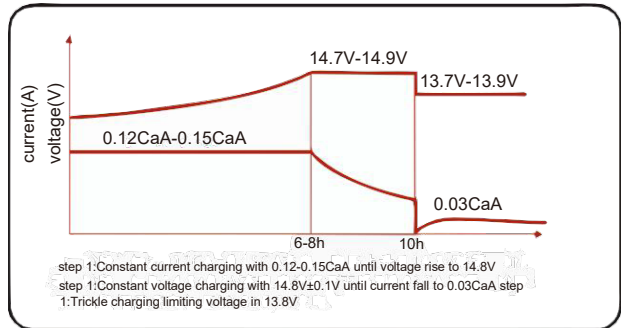
Effect of temperature on capacity



Effect of temperature on charge voltage



Charge Characteristic Curve



Cycle service life

