

TECHNICAL DATA SHEET

DGY12-80

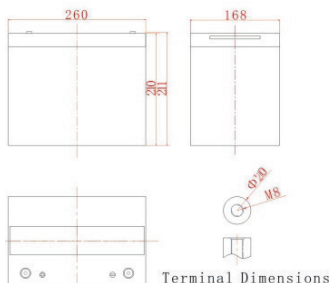


General Features

- › 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	260mm±1.5mm
Width	168mm±1.5mm
Height	210mm±1.5mm
Total Height	211mm±1.5mm
Weight	24.0kg



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	82.2Ah
3Hour Rate	70.8Ah
1Hour Rate	57.0Ah

Self discharge Range:

3%/month(25°C)

Operating Temperature Range:

Discharge	-40°C~60°C (-40°F~140°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	10.5A

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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	298	160	97.5	57.0	32.7	24.2	15.9	10.2	8.38	4.40
1.65V	289	155	95.8	56.6	32.5	24.0	15.8	10.1	8.30	4.38
1.70V	278	152	94.1	56.2	32.3	23.6	15.6	10.0	8.22	4.35
1.75V	255	147	93.3	55.4	31.8	23.4	15.4	10.0	8.14	4.34
1.80V	229	137	89.2	54.0	31.2	23.2	15.0	9.88	8.06	4.31
1.85V	204	122	81.4	50.0	29.6	21.8	14.3	9.47	7.82	4.24

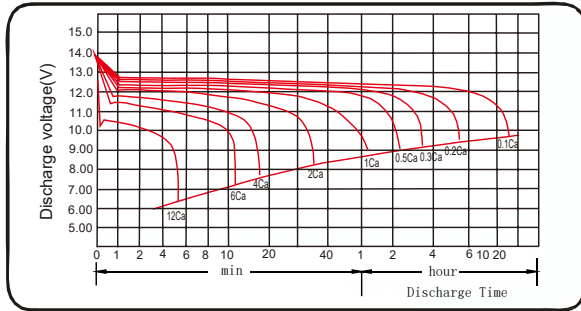
Constant Power Discharge Characteristics Unit: W /cell (25°C, 77°F)

F.V/Time	5M	15M	30M	1h	2h	3h	5h	8h	10h	20h
1.60V	500	282	176	108	61.8	46.1	30.2	19.8	16.1	8.70
1.65V	481	277	175	107	61.6	45.5	30.0	19.7	16.0	8.66
1.70V	478	274	175	106	61.4	45.2	29.8	19.6	15.8	8.62
1.75V	446	272	174	105	61.0	45.0	29.6	19.4	15.6	8.58
1.80V	410	257	170	104	60.9	44.8	29.3	19.3	15.5	8.54
1.85V	366	230	156	97.0	58.1	42.6	27.9	18.6	15.2	8.46

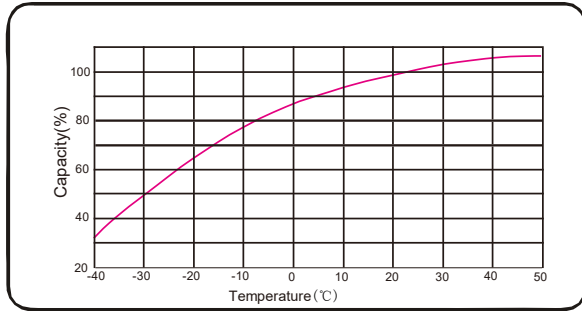
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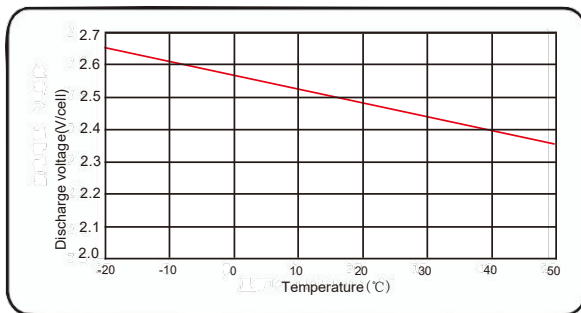
Discharge Characteristic Curve



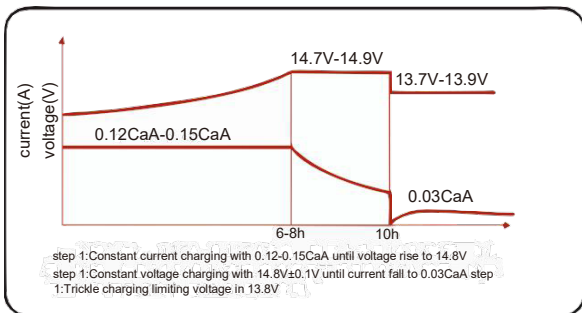
Effect of temperature on capacity



Effect of temperature on charge voltage



Charge Characteristic Curve



Cycle service life

