TECHNICAL DATA SHEET

DGY12-100



Applications

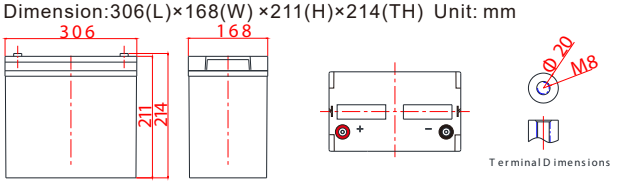
- Solar / wind energy and other new energy storage
- UPS/EPS
- Power systems
- Telecommunications system
- Emergency lighting、Auto control system
- Other general purpose

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

RoHS

Dimension:306(L)×168(W) ×211(H)×214(TH) Unit: mm



Specification

Nominal Voltage	12V	
Nominal Capacity	97Ah	
Design life	10 years	
Terminal	M8	
Approx. Weight	Approx 28.5kg (62.8lbs)	
Container Material	ABS	
Rated Capacity	91.3Ah	10Hour Rate
	72.3Ah	3Hour Rate
	59.4Ah	1Hour Rate (
Internal resistance	Full charged at 25°C: 5.5 mΩ	
Max. Discharge Current	1080A(5S)	
Operating Temperature	Discharge:	-40 ~60℃(-40~ 140°F)
	Charge:	-20 ~50℃(-4~ 122°F)
	Storage:	-20 ~50℃(-4~ 122°F)
Charge Method (25 °C)	Charge current:	Max. 22.5A；Recom.9.0A
	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	

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BATTERY SUPPLIES

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

FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	165	101	59.4	34.1	24.7	16.6	10.9	9.31	4.90
1.65V	160	98.8	59.0	33.9	24.5	16.4	10.8	9.22	4.88
1.70V	157	97.1	58.6	33.6	24.1	16.2	10.7	9.13	4.85
1.75V	152	96.2	57.7	33.1	23.9	16.1	10.6	9.04	4.83
1.80V	141	92.1	56.3	32.5	23.7	15.6	10.5	9.00	4.81
1.85V	126	84.0	52.1	30.9	22.3	14.9	10.1	8.69	4.72

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

FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	291	182	112	64.4	47.0	31.5	21.2	17.9	9.70
1.65V	286	180	111	64.2	46.4	31.3	21.0	17.7	9.66
1.70V	283	180	111	64.0	46.2	31.0	20.9	17.6	9.61
1.75V	281	179	110	63.6	45.9	30.9	20.7	17.4	9.57
1.80V	266	175	109	63.4	45.7	30.5	20.6	17.2	9.52
1.85V	237	160	101	60.6	43.5	29.1	19.9	16.9	9.43

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.

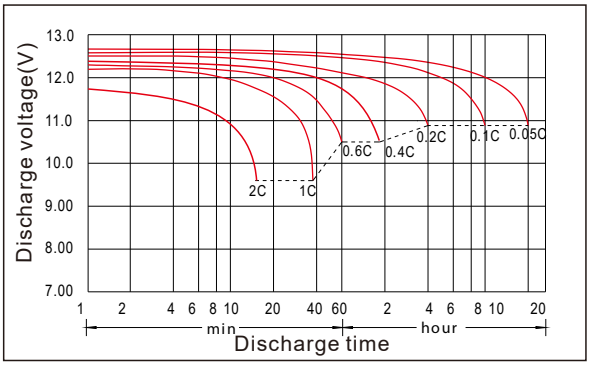
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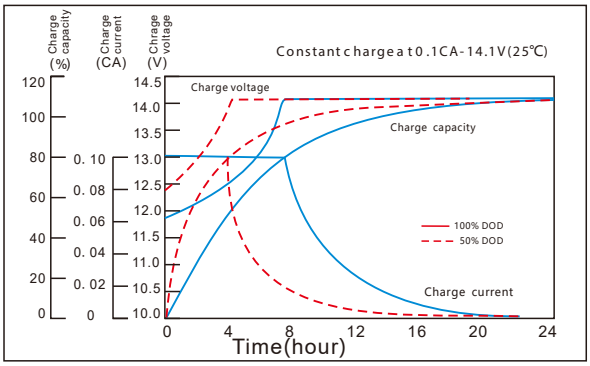
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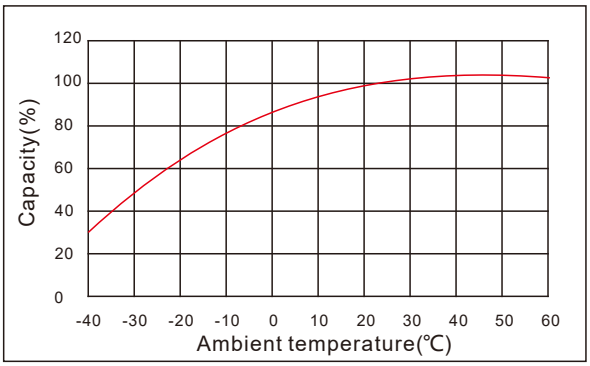
Discharge characteristic



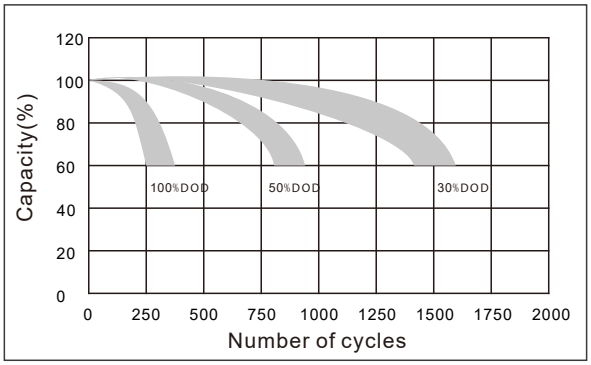
Charging characteristic



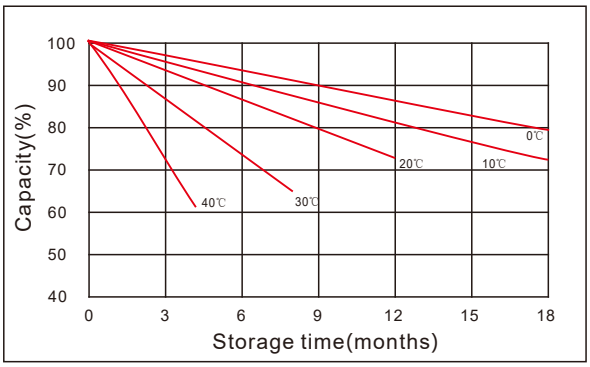
The effect of temperature on capacity



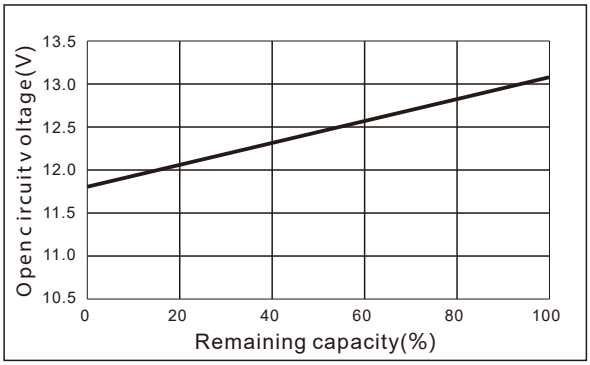
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



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