

TECHNICAL DATA SHEET

DGY12-69



Applications



CYCLIC



STATIONARY



SOLAR



MARINE

Applications

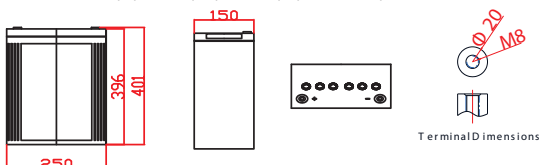
- › Electric pedestrian stacker
- › Other general purpose

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: 250(L)×150(W)×396(H)×401(TH) Unit: mm



Specification

Nominal Voltage	12V	
Nominal Capacity	87.6 Ah	
Terminal	M8	
Approx. Weight	Approx 30.4kg (67.1lbs)	
Container Material	ABS	
Rated Capacity	87.6Ah	20Hour Rate
	78.8Ah	10Hour Rate
	71.1Ah	5Hour Rate
	48.4Ah	1Hour Rate
Internal resistance	Full charged at 25°C:	8.4 mΩ
Max. Discharge Current	830A(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 current:	Max. 17.5A ; Recom.7.0A	
Charge Method (25 °C)	Float Charge:13.5-13.8V,recom.13.8V/°C	
	Equalize charge:13.8-14.1V,recom.14.1V(-24mV/°C)	
	Cycle charge:14.4-15.0V,recom.14.7V(-30mV/°C)	
Self discharge	2% of capacity declined per month at 25°C	

TECHNICAL DATA SHEET

DGY12-69

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

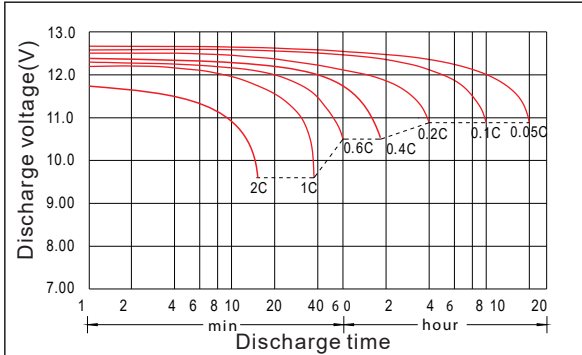
F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	141.64	114.89	75.28	51.88	28.59	21.53	17.18	14.98	9.73	8.09	4.51
1.65V	134.03	109.90	72.39	50.14	27.80	20.88	16.71	14.59	9.63	8.01	4.43
1.70V	123.28	102.82	69.25	48.40	27.02	20.30	16.26	14.21	9.50	7.88	4.38
1.75V	112.79	95.74	66.10	46.66	25.94	19.70	15.84	13.86	9.36	7.77	4.33
1.80V	102.03	88.39	63.21	44.92	25.02	19.10	15.40	13.50	9.21	7.67	4.28
1.85V	83.41	73.44	54.56	40.29	22.92	17.65	14.30	12.60	8.63	7.22	4.07

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

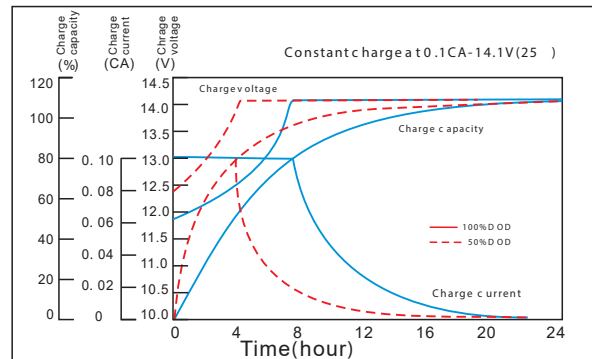
F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	241.41	201.95	137.65	88.90	54.78	41.32	33.19	27.85	19.13	15.88	8.91
1.65V	230.50	194.29	133.47	86.35	53.16	40.39	32.50	27.39	18.92	15.69	8.80
1.70V	218.66	186.39	129.06	84.03	51.76	39.23	31.57	26.69	18.71	15.51	8.70
1.75V	203.80	175.95	124.65	81.47	50.14	38.30	30.87	26.23	18.48	15.32	8.61
1.80V	187.79	164.81	120.24	78.69	48.75	37.37	30.18	25.53	18.22	15.13	8.52
1.85V	156.22	138.58	104.69	71.03	44.80	34.59	28.09	23.91	17.13	14.28	8.10

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.

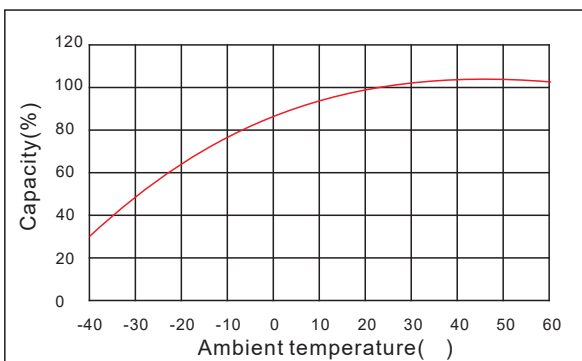
Discharge characteristic



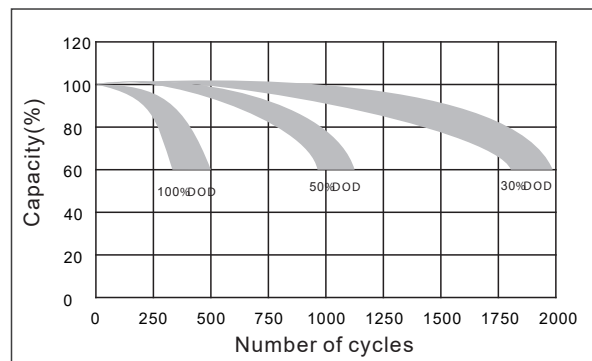
Charging characteristic



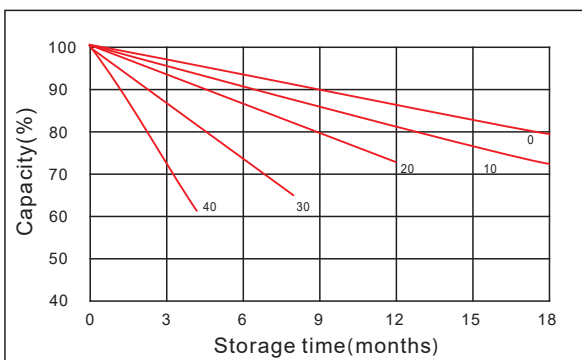
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity

