

TECHNICAL DATA SHEET

DGY12-70JEV



Applications



CYCLIC



STATIONARY



SOLAR



MARINE

Applications

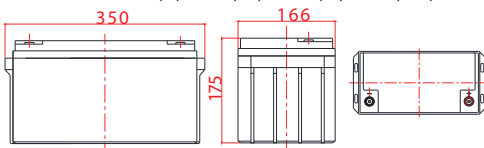
- > Electric vehicle
- > Electric wheelchair
- > Electric scooter
- > Electric play car for children
- > Garbage truck
- > Patrol car

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



Specification

Nominal Voltage	12V
Nominal Capacity	70Ah
Design life	12 years
Terminal	M6
Approx. Weight	Approx 21.0kg (46.3lbs)
Container Material	ABS
Rated Capacity	70.0 Ah 20Hour Rate (3.48 A to 10.5V)
	65.4 Ah 10Hour Rate (6.54 A to 10.5V)
	58.5 Ah 5Hour Rate (11.7 A to 10.5V)
Internal resistance	Full charged at 25°C: 8.2 mΩ
Max. Discharge Current	780A(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.13.0 A
Charge Method (25 °C)	Float Charge: 13.5-13.8V, recom. 13.8V(-18mV/ °C)
	Cycle charge: 14.28-14.4 V, recom. 14.4V(-30mV/ °C)
Self discharge	3% of capacity declined per month at 25°C

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

FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	121	73.4	43.1	24.7	17.9	12.0	7.91	6.73	3.53
1.65V	117	72.1	42.9	24.6	17.8	11.9	7.84	6.67	3.52
1.70V	114	70.9	42.5	24.4	17.5	11.8	7.78	6.60	3.50
1.75V	111	70.2	41.9	24.0	17.3	11.7	7.72	6.54	3.48
1.80V	103	67.2	40.8	23.6	17.2	11.4	7.65	6.50	3.46
1.85V	92.0	61.3	37.8	22.4	16.2	10.8	7.34	6.28	3.41

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

FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	212	133	81.5	46.7	34.1	22.8	15.4	12.9	6.99
1.65V	209	131	80.9	46.6	33.7	22.7	15.2	12.8	6.96
1.70V	206	131	80.3	46.4	33.5	22.5	15.2	12.7	6.93
1.75V	205	131	79.6	46.2	33.3	22.4	15.1	12.6	6.89
1.80V	194	128	79.0	46.1	33.2	22.1	14.9	12.4	6.86
1.85V	173	117	73.3	44.0	31.6	21.1	14.4	12.2	6.80

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.

Charger recommendations

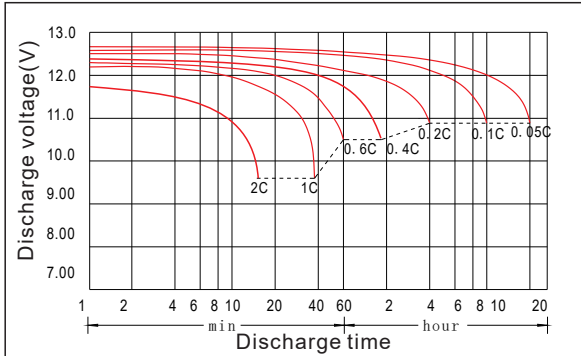
Type of charger	Zivan	AQHF WP	AQHF24-30FC G2
Matching profile	AGM =BA1+CU2	AMG SLA	AGM

Max. charging current 2.4Vpc

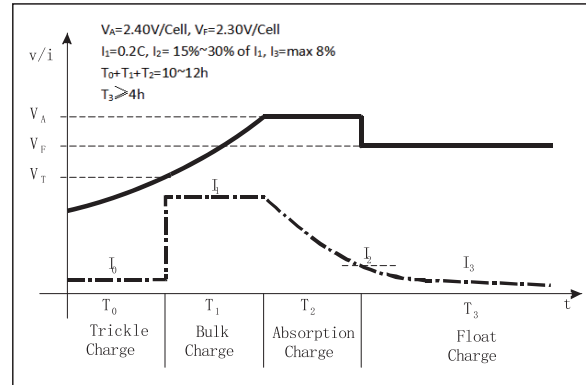
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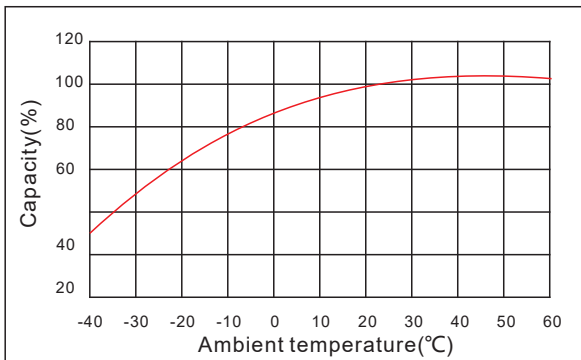
Discharge characteristic



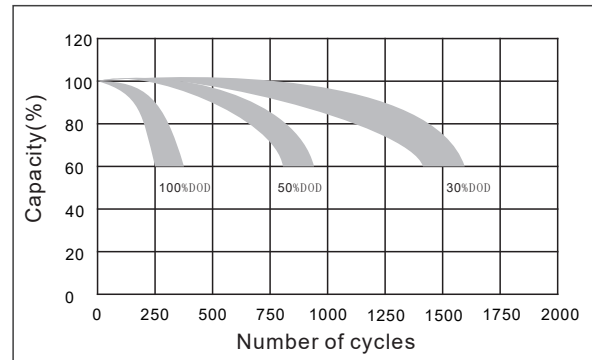
Charging characteristic



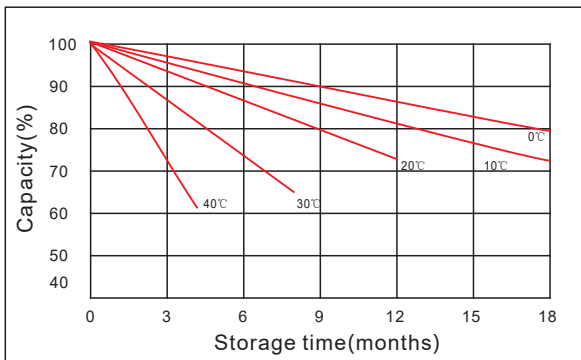
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity

