

TECHNICAL DATA SHEET

DGY12-80EV-M6



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: 260(L)×168(W)×210(H)×210(TH) Unit: mm



Applications

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

Specification

Nominal Voltage	12V
Nominal Capacity	70Ah
Design life	5 years
Terminal	M6
Approx. Weight	Approx24.0kg (52.8lbs)
Container Material	ABS

86.8 Ah 20Hour Rate (4.34 A to 10.5V)

Rated Capacity **81.4 Ah** 10Hour Rate (8.14 A to 10.5V)

77.0 Ah 5Hour Rate (15.4 A to 10.5V)

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

Charge current: Max. 14.0A

Charge Method Float Charge: 13.7 -13.9 V,recom.13.8 V(-18mV/ °C)
(25 °C) Cycle charge:14.28 -14.4 V,recom.14.4 V(-30mV/ °C)

Self discharge 3% of capacity declined per month at 25°C

TECHNICAL DATA SHEET

DGY12-80EV-M6

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

F.V/Time	5Min	15Min	30Min	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	5Min	15Min	30Min	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

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

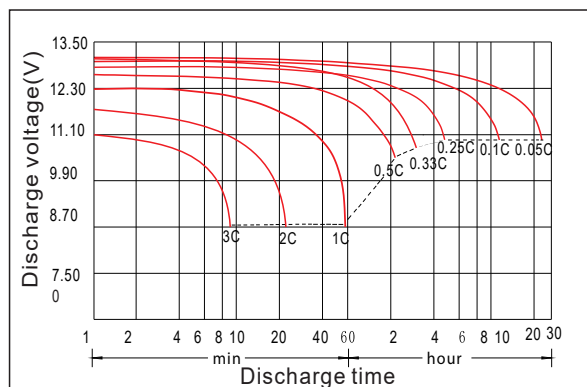
Type of charger	Zivan	AQHF WP	AQHF24-30FC G2
Matching profile	AGM =BA1+CU2	AMG SLA	AGM

Max. charging current 2.4Vpc

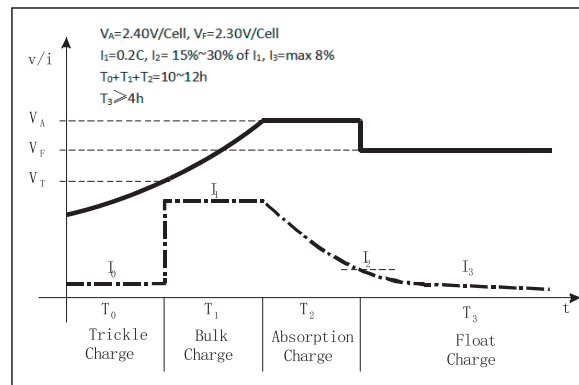
TECHNICAL DATA SHEET

DGY12-80EV-M6

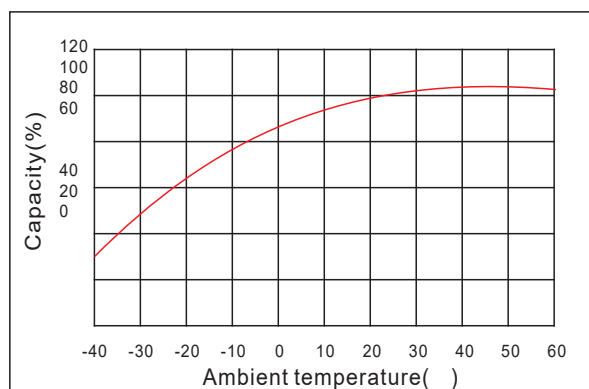
Discharge characteristic



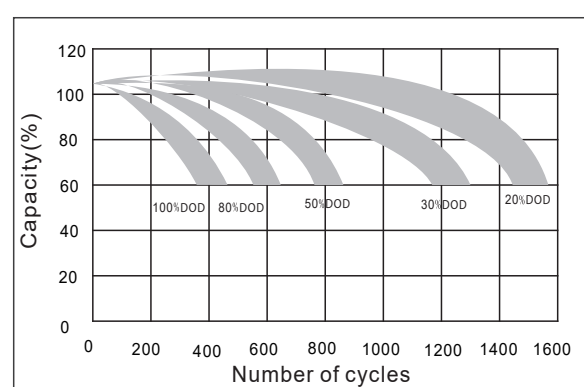
Charging characteristic



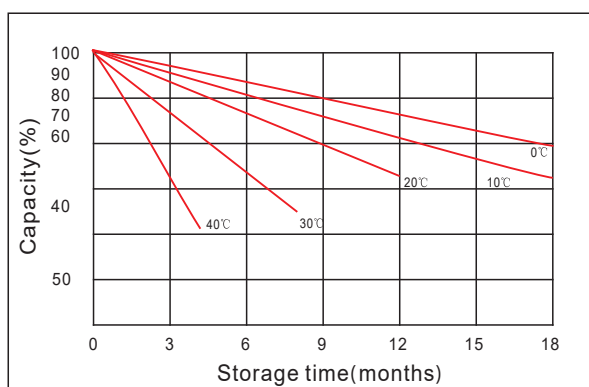
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity

