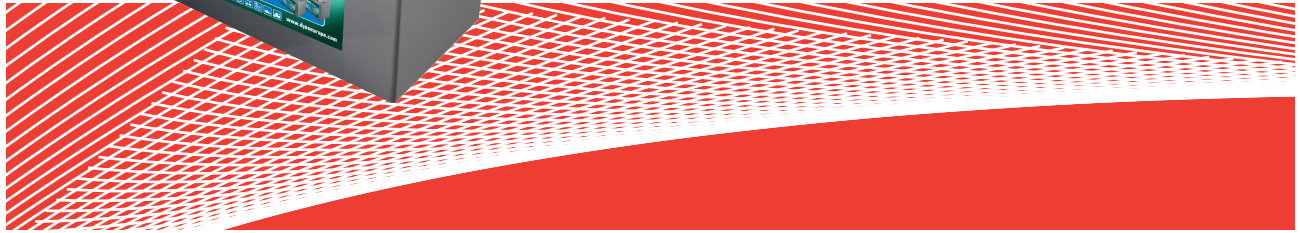


# TECHNICAL DATA SHEET

## DGY12-100EV



### Applications

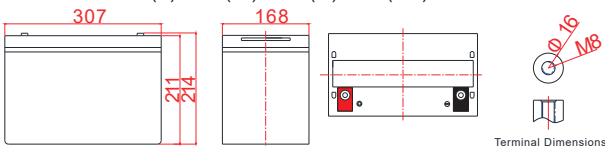
- > Electric vehicle
- > Electric wheelchair
- > Electric scooter
- > Electric play car for children
- > Garbage truck
- > Patrol car

### 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: 307(L) × 168(W) × 211(H) × 214(TH) Unit: mm



### Specification

Nominal Voltage	12V
Nominal Capacity	105Ah
Design life	12 years
Terminal	M8
Approx. Weight	Approx 31.0kg (68.4lbs)
Container Material	ABS
Rated Capacity	<b>105Ah</b> 20Hour Rate (5.29A to 10.5V) <b>99.0Ah</b> 5Hour Rate (19.8A to 10.5V) <b>71.1Ah</b> 1Hour Rate (71.1A 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 Method (25 °C)	Float Use: 13.5-13.8V@25°C Cycle Use :14.3-14.4V,@25°C Max charge current 18.0A
Self discharge	3% of capacity declined per month at 25°C

# TECHNICAL DATA SHEET

## DGY12-100EV

### 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	383	206	125	73.2	42.0	31.1	20.4	13.1	10.8	5.37
1.65V	371	199	123	72.7	41.7	30.8	20.2	13.0	10.7	5.34
1.70V	356	195	121	72.2	41.4	30.3	20.0	12.9	10.6	5.31
1.75V	328	189	120	71.1	40.8	30.0	19.8	12.8	10.5	5.29
1.80V	294	176	115	69.3	40.0	29.8	19.3	12.7	10.4	5.26
1.85V	262	157	105	64.2	38.0	28.1	18.3	12.2	10.0	5.17

### 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	642	362	226	138	79.3	59.2	38.8	25.5	20.7	10.6
1.65V	617	356	224	137	79.1	58.4	38.6	25.3	20.5	10.5
1.70V	614	352	224	136	78.8	58.1	38.2	25.2	20.3	10.5
1.75V	573	350	223	135	78.4	57.7	38.0	24.9	20.1	10.5
1.80V	526	331	218	134	78.2	57.5	37.6	24.7	19.9	10.5
1.85V	470	295	200	125	74.7	54.7	35.9	23.9	19.6	10.4

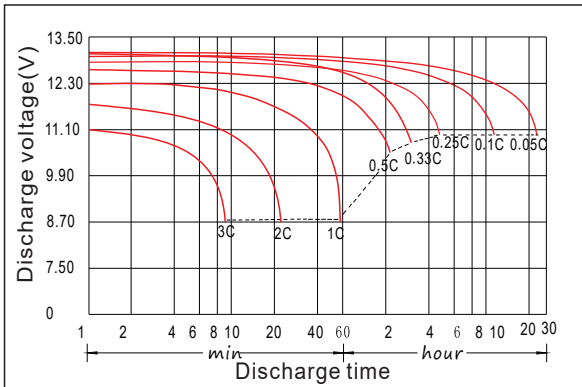
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

### Charger recommendations

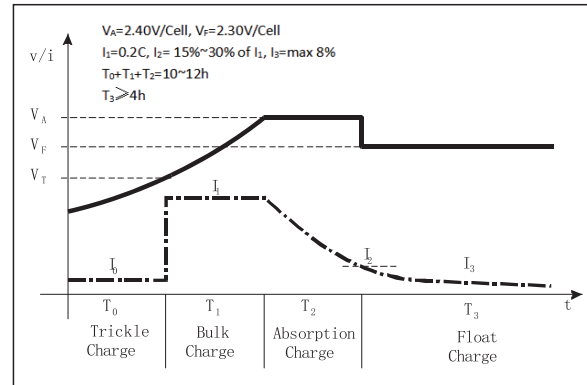
Type of charger	Zivan	AQHF WP	AQHF24-30FC G2
Matching profile	AGM =BA1+CU2	AMG SLA	AGM

**Max. charging current 2.4Vpc**

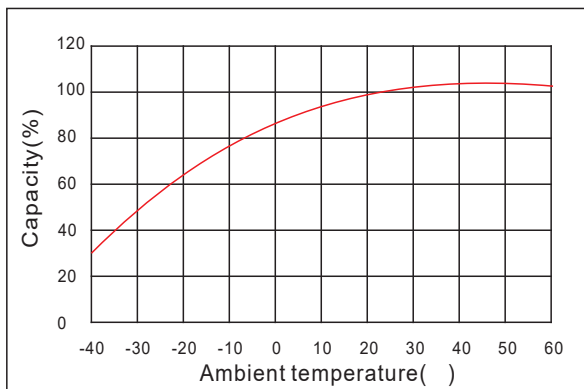
### Discharge characteristic



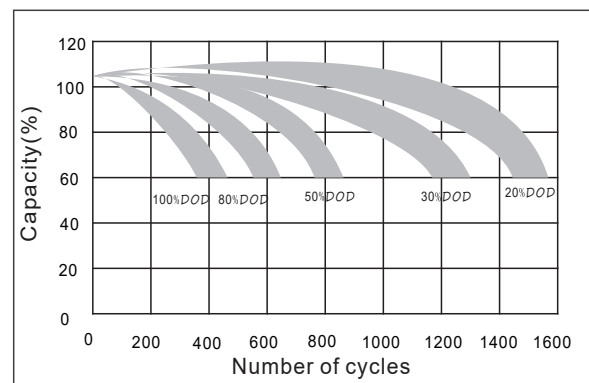
### Charging characteristic



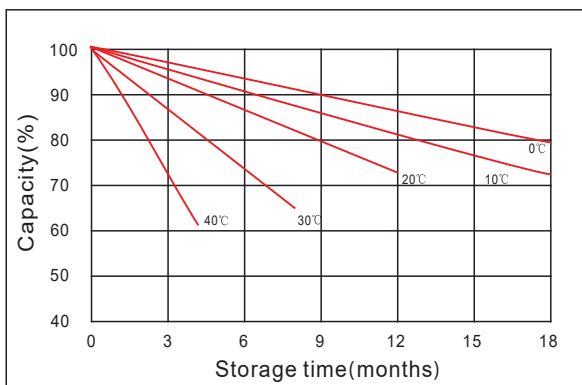
### The effect of temperature on capacity



### The effect of discharge depth on cycle life



### Curves of self-discharge



### Curves of open circuit voltage vs. capacity

