

TECHNICAL DATA SHEET

DAB12-100EV

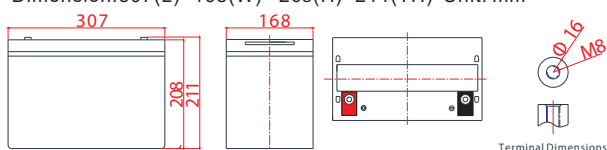


General Features

- High Corrosion Resistant Performance: Pb-Ca multi-alloy grid
- High Energy Density and Power Density
- Excellent Charge Acceptance Ability
- Strong High and Low Temperature Performance
- Optimized Capability of instant High-current Discharging
- Low self-discharge rate



Dimension: 307(L) × 168(W) × 208(H) × 211(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	103,2Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx 30.7kg (67.5lbs)
Container Material	ABS
Rated Capacity	103.2 Ah 20Hour Rate (5.16A to 10.8V)
	90.9 Ah 10Hour Rate (9.09 A to 10.8V)
	82.0 Ah 5Hour Rate (16.4 A to 10.8V)
Internal resistance	Full charged at 25°C: 5.4 mΩ
Max. Discharge Current	1080A(5S)
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. 18.0 A	
Charge Method (25 °C)	Float Charge: 13.5-13.8V, recom. 13.8V/ °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	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	317	170	104	60.6	34.8	25.2	16.9	11.1	9.36	5.25
1.65V	307	165	102	60.2	34.6	25.0	16.8	11.0	9.27	5.22
1.70V	295	162	100	59.8	34.3	24.6	16.6	10.9	9.18	5.19
1.75V	271	156	99.2	58.9	33.8	24.3	16.4	10.8	9.09	5.16
1.80V	243	146	94.9	57.4	33.2	24.2	16.0	10.8	9.00	5.13
1.85V	217	130	86.6	53.2	31.5	22.8	15.2	10.3	8.73	5.11

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

FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	532	300	188	115	65.7	48.0	32.1	21.6	18.0	10.3
1.65V	511	295	186	114	65.5	47.4	31.9	21.4	17.8	10.2
1.70V	509	291	186	113	65.3	47.1	31.7	21.3	17.6	10.2
1.75V	474	290	185	112	64.9	46.8	31.5	21.2	17.5	10.1
1.80V	436	274	180	111	64.7	46.7	31.1	21.0	17.3	10.1
1.85V	389	245	165	103	61.8	44.4	29.7	20.3	17.0	10.0

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

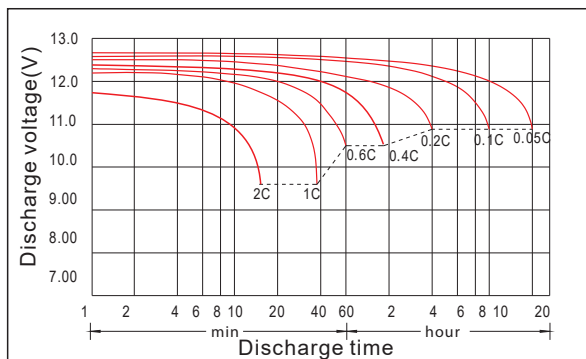
Type of charger	Zivan	AQHF WP	AQHF24-30FC G2
Matching profile	AGM =BA1+CU2	AMG SLA	AGM

Max. charging current 2.4Vpc

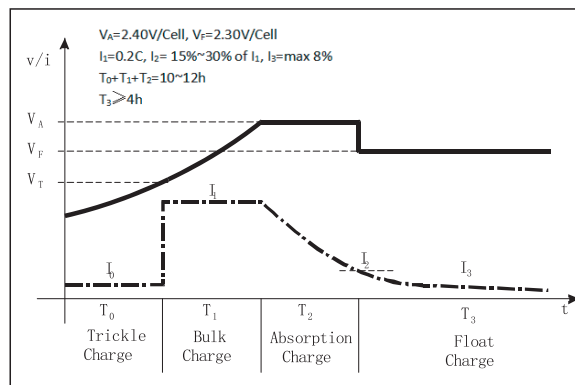
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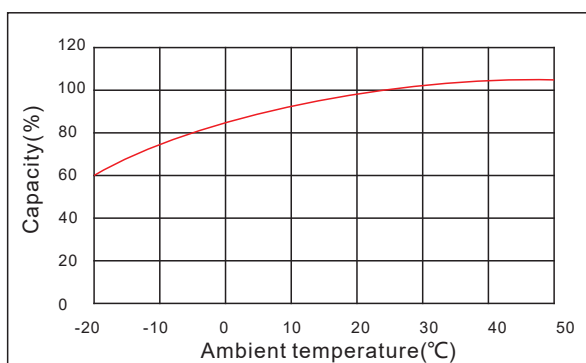
Discharge characteristic



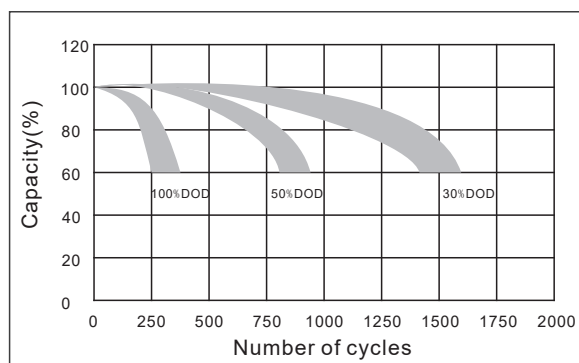
Charging characteristic



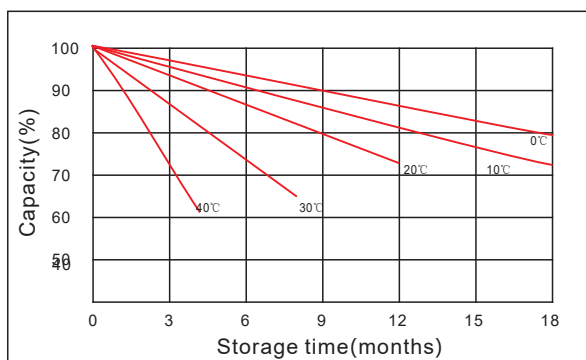
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life

