

# TECHNICAL DATA SHEET

**DAB12-44EV-HD**



## Applications



CYCLIC



STATIONARY



SOLAR



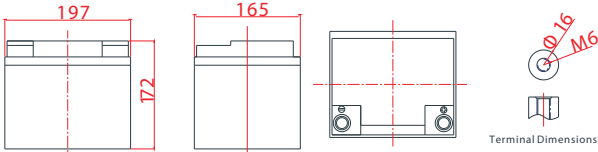
MARINE

## 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: 197(L)×165(W)×172(H)×172(TH) Unit: mm



Terminal Dimensions

## Specification

Nominal Voltage	12V
Nominal Capacity	52Ah/C20
Design life	10 years
Terminal	M6
Approx. Weight	Approx 14.5kg (32.0lbs)
Container Material	ABS
Rated Capacity	<b>52.0 Ah</b> 20Hour Rate (2.60 A to 10.5V)
	<b>46.0 Ah</b> 5Hour Rate (9.20 A to 10.5V)
Internal resistance	Full charged at 25°C: 11.8 mΩ
Max. Discharge Current	540A(5S)
Operating Temperature	Discharge:
	Charge: -20 ~50°C (-4 ~ 122°F) Storage: -20 ~50°C (-4 ~ 122°F)
Charge current:	Max. 9.0A
Charge Method (25 °C)	Float Charge: 13.5-13.8V, recom. 13.8V (-3mV/ °C)
	Cycle charge: 14.28-14.4V, recom. 14.4V (-5mV/ °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	159	85.2	51.8	30.3	17.4	12.6	8.47	5.56	4.68	2.46
1.65V	154	82.6	50.9	30.1	17.3	12.5	8.38	5.51	4.64	2.44
1.70V	148	80.8	50.1	29.9	17.2	12.3	8.29	5.47	4.59	2.43
1.75V	136	78.2	49.6	29.5	16.9	12.2	8.20	5.42	4.55	2.42
1.80V	122	72.9	47.5	28.7	16.6	12.1	7.98	5.38	4.50	2.41
1.85V	108	65.0	43.3	26.6	15.7	11.4	7.59	5.16	4.37	2.37

## 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	266	150	93.8	57.3	32.9	24.0	16.1	10.8	9.00	4.86
1.65V	256	147	92.9	56.8	32.8	23.7	16.0	10.7	8.91	4.84
1.70V	254	146	92.9	56.4	32.6	23.5	15.8	10.7	8.82	4.82
1.75V	237	145	92.4	56.0	32.5	23.4	15.7	10.6	8.73	4.79
1.80V	218	137	90.2	55.5	32.4	23.3	15.6	10.5	8.64	4.77
1.85V	195	122	82.7	51.6	30.9	22.2	14.9	10.1	8.51	4.73

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

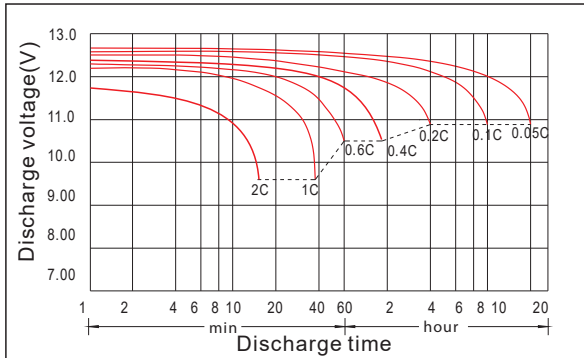
Type of charger	Zivan	AQHF WP	AQHF24-30FC G2
Matching profile	AGM =BA1+CU2	AGM SLA	AGM

**Max. charging Voltage 2.4Vpc**

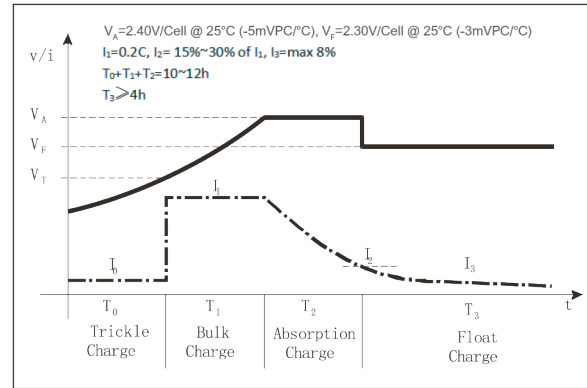
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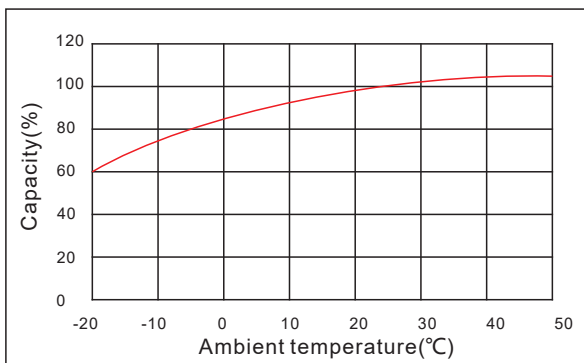
## Discharge characteristic



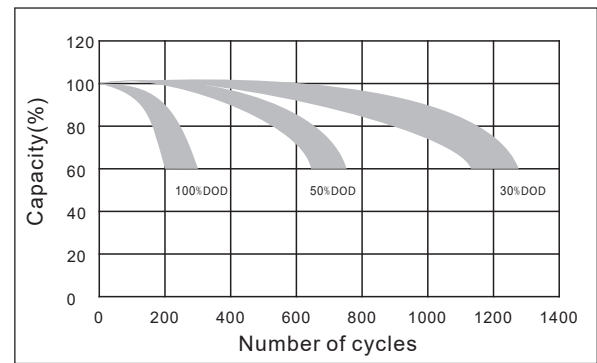
## Charging characteristic



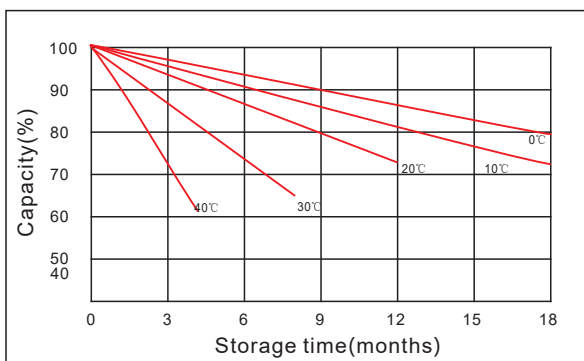
## The effect of temperature on capacity



## The effect of discharge depth on cycle life



## Curves of self-discharge



## The effect of temperature on float life

