

TECHNICAL DATA SHEET

DAB12-55EV



Applications



CYCLIC



STATIONARY



SOLAR



MARINE

Applications

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

Specification

Nominal Voltage	12V
Nominal Capacity	59.2Ah
Design life	10 years
Terminal	M6
Approx. Weight	Approx 17.5kg (38.6lbs)
Container Material	ABS
Rated Capacity	59.2 Ah 20Hour Rate (2.96 A to 10.5V)
	55.6 Ah 10Hour Rate (5.56 A to 10.5V)
	50.0 Ah 5Hour Rate (10.0 A to 10.5V)
Internal resistance	Full charged at 25°C: 8.6 mΩ
Max. Discharge Current	660A(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. 11.0 A

Charge Method (25 °C) Float Charge: 13.5-13.8V, recom. 13.8V(-18mV/ °C)
Cycle charge: 14.28-14.4V, recom. 14.4V(-30mV/ °C)

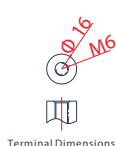
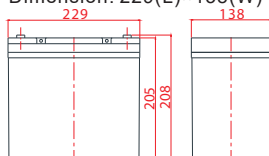
Self discharge 3% of capacity declined per month at 25°C

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: 229(L)×138(W)×205(H)×207(TH) Unit: mm



Terminal Dimensions

TECHNICAL DATA SHEET

DAB12-55EV

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

FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	194	104	63.3	37.0	21.2	15.4	10.3	6.79	5.72	3.00
1.65V	188	101	62.3	36.8	21.1	15.3	10.2	6.74	5.67	2.99
1.70V	180	98.8	61.2	36.5	21.0	15.0	10.1	6.68	5.61	2.97
1.75V	166	95.6	60.6	36.0	20.6	14.9	10.0	6.63	5.56	2.96
1.80V	149	89.1	58.0	35.1	20.3	14.8	9.76	6.58	5.50	2.94
1.85V	133	79.4	52.9	32.5	19.2	13.9	9.27	6.30	5.34	2.89

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	325	183	115	70.0	40.2	29.3	19.6	13.2	11.0	5.94
1.65V	313	180	114	69.5	40.0	28.9	19.5	13.1	10.9	5.91
1.70V	311	178	114	68.9	39.9	28.8	19.4	13.0	10.8	5.89
1.75V	290	177	113	68.4	39.7	28.6	19.2	12.9	10.7	5.86
1.80V	266	167	110	67.9	39.6	28.5	19.0	12.8	10.6	5.83
1.85V	238	150	101	63.0	37.8	27.1	18.2	12.4	10.4	5.78

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

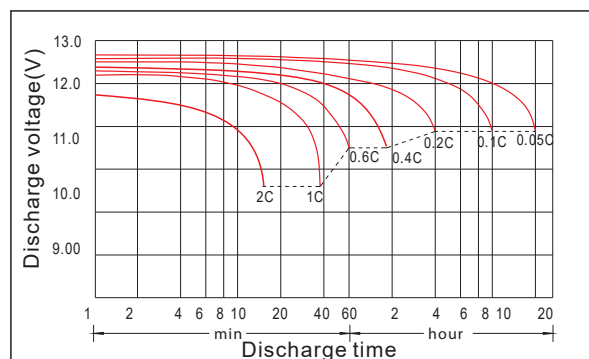
Type of charger	Zivan	AQHF WP	AQHF24-30FC G2
Matching profile	AGM =BA1+CU2	AMG SLA	AGM

Max. charging current 2.4Vpc

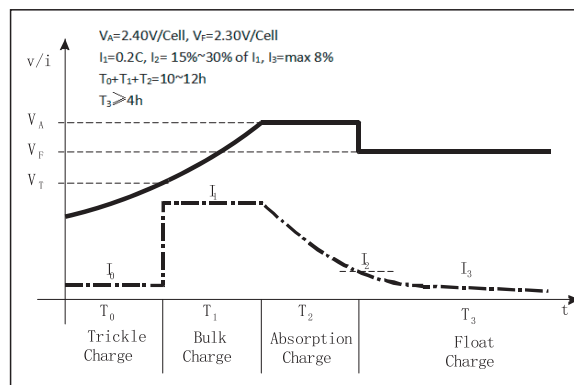
TECHNICAL DATA SHEET

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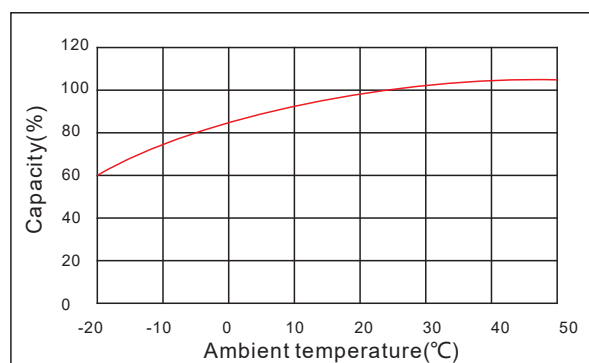
Discharge characteristic



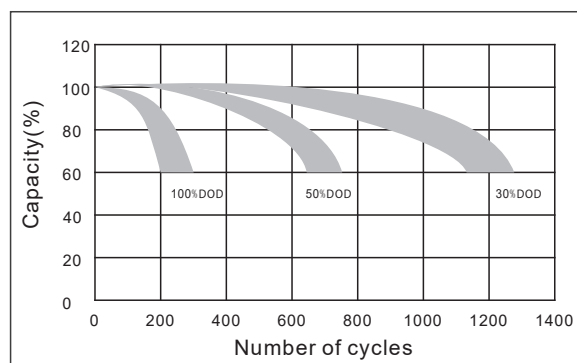
Charging characteristic



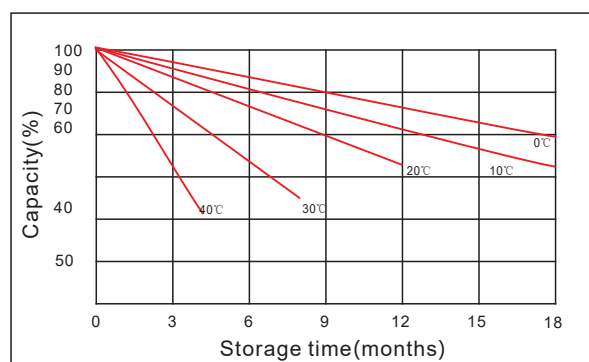
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life

