

TECHNICAL DATA SHEET

DAB12-28EV



Applications



CYCLIC



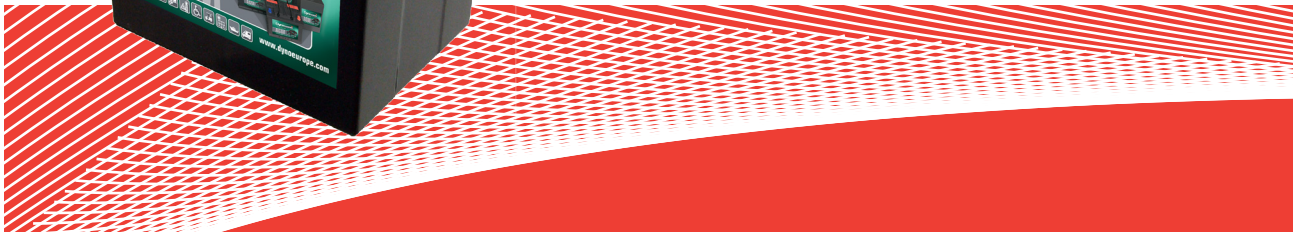
STATIONARY



SOLAR



MARINE

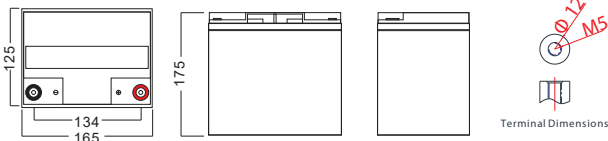


General Features

- › 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: 165(L)×125(W)×175(H)×175(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	28.0Ah
Design life	5 years
Terminal	M5
Approx. Weight	Approx 8.00kg (17.6lbs)
Container Material	ABS
Rated Capacity	28.0Ah 20Hour Rate (1.40A to 10.5V)
	26.3Ah 10Hour Rate (2.63A to 10.5V)
	24.3Ah 5Hour Rate (4.87A to 10.5V)
Internal resistance	Full charged at 25°C: 16.0 mΩ
Max. Discharge Current	420A(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 Method (25 °C)	Charge current: Max.5.6A
	Float Charge: 13.5-13.8V, recom. 13.8V(-18mV/ °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	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	111	72.5	54.0	35.4	18.5	10.6	7.73	6.19	5.26	3.47	2.77	1.48
1.65V	110	69.4	49.6	33.6	17.4	10.2	7.50	5.99	5.15	3.42	2.74	1.46
1.70V	90.2	65.2	46.2	32.6	16.8	10.0	7.36	5.68	5.10	3.36	2.69	1.43
1.75V	83.7	62.2	43.1	31.8	16.2	9.72	7.25	5.60	4.87	3.28	2.63	1.40
1.80V	77.0	58.5	40.0	30.8	15.7	9.46	6.86	5.49	4.68	3.19	2.58	1.34

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

FV/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	208	131	98.9	59.8	33.9	19.8	14.6	11.7	9.94	6.55	5.37	2.94
1.65V	192	124	92.9	59.4	31.9	19.1	14.2	11.3	9.75	6.45	5.27	2.86
1.70V	175	120	88.7	59.2	30.9	18.7	14.0	10.8	9.47	6.39	5.23	2.84
1.75V	159	116	85.4	58.6	30.0	18.3	13.8	10.6	9.29	6.13	5.11	2.78
1.80V	143	112	81.7	58.2	29.6	18.2	13.4	10.5	9.05	5.92	5.00	2.76

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

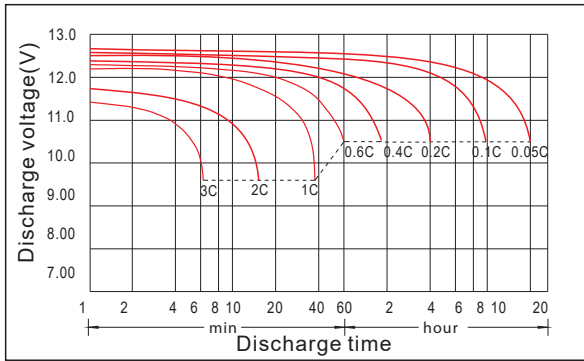
Type of charger	Zivan	AQHF WP	AQHF24-30FC G2
Matching profile	AGM =BA1+CU2	AMG SLA	AGM

Max. charging current 2.4Vpc

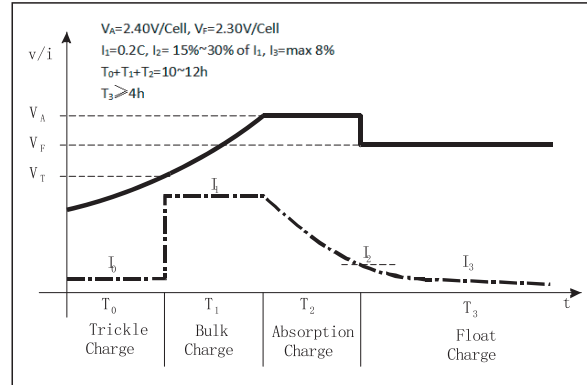
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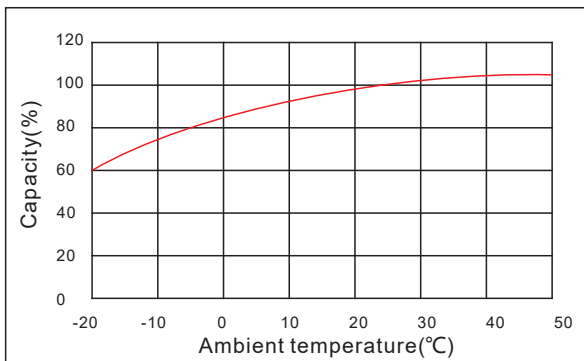
Discharge characteristic



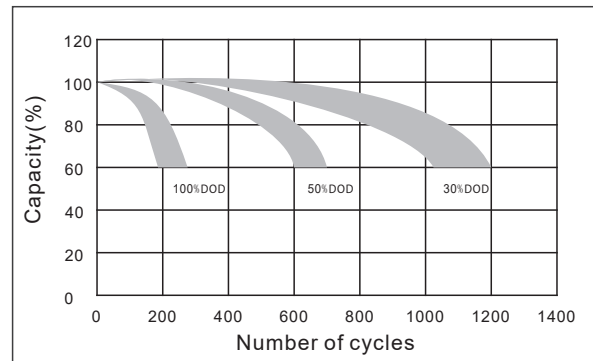
Charging characteristic



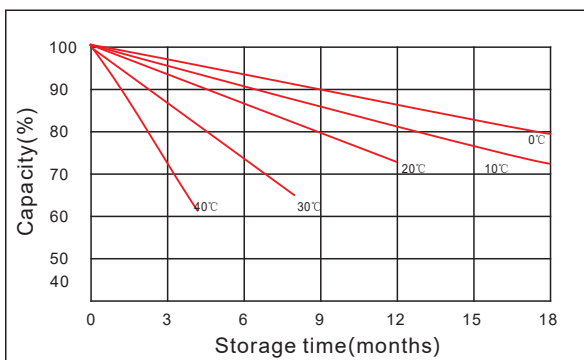
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life

