

TECHNICAL DATA SHEET

DAB12-7.5EV

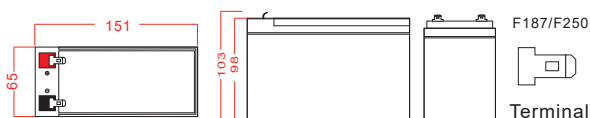


General Features

- 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: 151(L)×65(W)×98(H)×103(TH) Unit: mm



Specification

Nominal Voltage	12V
Nominal Capacity	7Ah
Design life	12 years
Terminal	F187/F250
Approx. Weight	Approx 2.56kg (5.65lbs)
Container Material	ABS
	9.60Ah 20Hour Rate (0.48A to 10.5V)
Rated Capacity	9.00 Ah 10Hour Rate (0.90 A to 10.5V)
	8.50 Ah 5Hour Rate (1.70 A 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 current: Max. 1.40 A	
Charge Method (25 °C)	Float Charge: 13.7 -13.9 V, recom. 13.8 V (-18mV/ °C)
	Cycle charge: 14.28 -14.4 V, recom. 14.4 V (-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)

F.V/Time	5Min	15Min	30Min	1h	2h	3h	5h	8h	10h	20h
1.60V	32.8	17.6	10.7	6.28	3.60	2.66	1.75	1.12	0.92	0.49
1.65V	31.9	17.1	10.6	6.24	3.58	2.64	1.74	1.11	0.91	0.48
1.70V	30.6	16.7	10.4	6.19	3.55	2.60	1.71	1.11	0.91	0.48
1.75V	28.2	16.2	10.3	6.10	3.50	2.57	1.70	1.10	0.90	0.48
1.80V	25.2	15.1	9.83	5.94	3.44	2.56	1.66	1.09	0.89	0.47
1.85V	22.5	13.5	8.97	5.51	3.26	2.41	1.57	1.04	0.86	0.47

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	49.9	28.2	17.6	10.8	6.17	4.60	3.01	1.98	1.61	0.87
1.65V	48.1	27.7	17.5	10.7	6.16	4.54	3.00	1.96	1.60	0.87
1.70V	47.8	27.4	17.5	10.6	6.13	4.52	2.98	1.96	1.58	0.86
1.75V	44.6	27.2	17.4	10.5	6.10	4.49	2.95	1.94	1.56	0.86
1.80V	41.0	25.7	16.9	10.4	6.08	4.47	2.93	1.93	1.54	0.85
1.85V	36.5	23.0	15.5	9.68	5.81	4.26	2.79	1.86	1.52	0.85

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

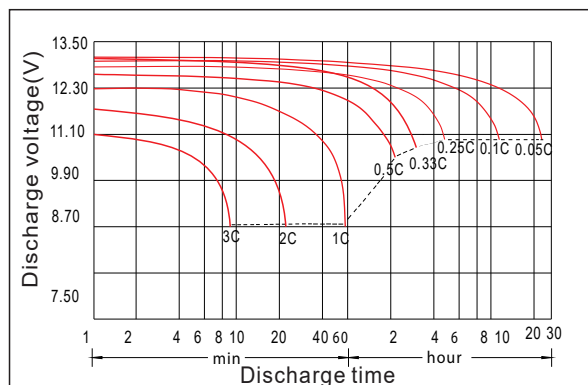
Type of charger	Zivan	AQHF WP	AQHF24-30FC G2
Matching profile	AGM =BA1+CU2	AMG SLA	AGM

Max. charging current 2.4Vpc

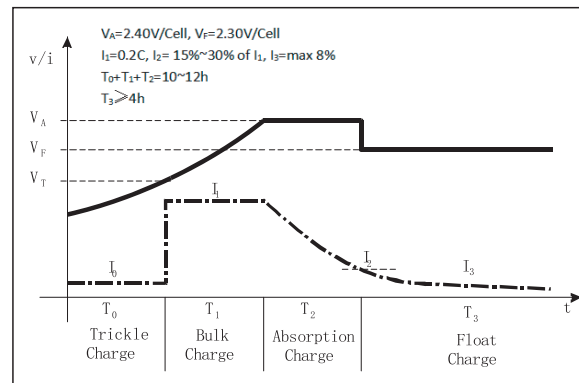
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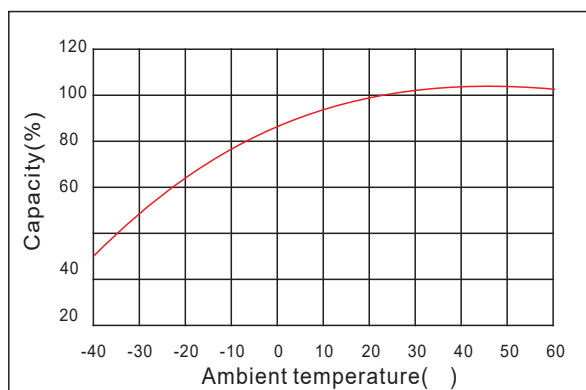
Discharge characteristic



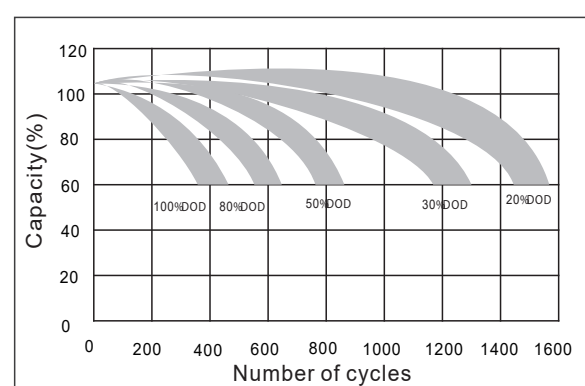
Charging characteristic



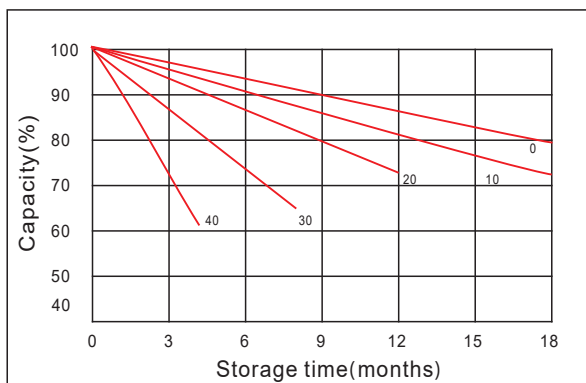
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity

