

# TECHNICAL DATA SHEET

## DAB12-160EV



### Applications

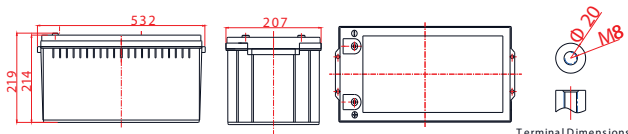
- › Electric vehicle
- › Electric wheelchair
- › Electricscooter
- › Electric play car for children
- › Garbage truck
- › Patrol car

### 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: 532(L) × 207(W) × 214(H) × 219(TH) Unit: mm



### Specification

Nominal Voltage	12V
Nominal Capacity	180Ah
Design life	5 years
Terminal	M8
Approx. Weight	Approx 51.0kg (113lbs)
Container Material	ABS
Rated Capacity	180Ah → 20Hour Rate (9.00A to 10.5V)
	173Ah → 10Hour Rate (17.3A to 10.5V)
	155Ah → 5Hour Rate (31.0A to 10.5V)
Internal resistance	Full charged at 25°C: 4.2 mΩ
Max. Discharge Current	1800A(5S)
Operating Temperature	Discharge: -40 ~ 60°C (-40 ~ 140°F)
	Charge: -20 ~ 50°C (-4 ~ 122°F)
	Storage: -20 ~ 50°C (-4 ~ 122°F)
Charge current:	36.0A
Charge Method	Float Charge: 13.5-13.8V, recom. 13.8V (-18mV/°C) (25°C)
	Cycle charge: 14.28-14.4V, 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)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	393	316	194	109	65.1	50.7	39.8	33.8	21.7	18.0	9.33
1.65V	362	295	184	106	62.9	49.2	38.6	32.8	21.5	17.8	9.28
1.70V	336	278	174	102	61.3	47.1	37.4	31.9	21.2	17.5	9.16
1.75V	308	260	167	99.0	58.9	45.9	36.4	31.0	20.9	17.3	9.00
1.80V	280	238	161	94.6	56.9	45.0	35.5	30.6	20.5	17.1	8.91
1.85V	219	197	137	84.5	52.0	41.9	33.3	28.2	19.3	16.1	8.83

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

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	670	551	353	205	123	96.3	76.7	64.1	42.3	35.3	18.6
1.65V	645	535	344	202	120	93.9	74.8	62.3	42.0	35.0	18.5
1.70V	602	507	328	196	117	90.3	72.4	60.8	41.5	34.3	18.3
1.75V	560	478	316	190	113	88.1	70.7	59.4	40.8	33.9	18.0
1.80V	516	442	306	183	110	87.6	69.4	58.6	40.1	33.6	17.8
1.85V	409	371	263	164	101	81.7	65.3	54.2	37.9	31.7	17.6

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

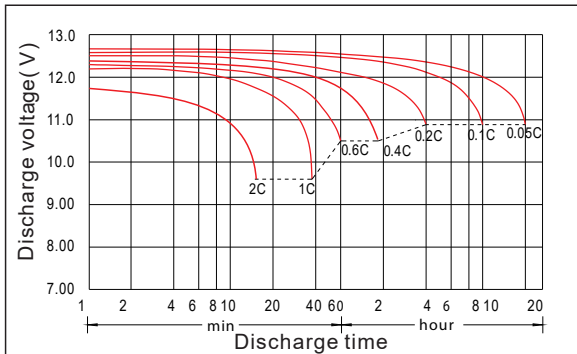
Type of charger	Zivan	AQHF WP	AQHF24-30FC G2
Matching profile	AGM =BA1+CU2	AMG SLA	AGM

**Max. charging current 2.4Vpc**

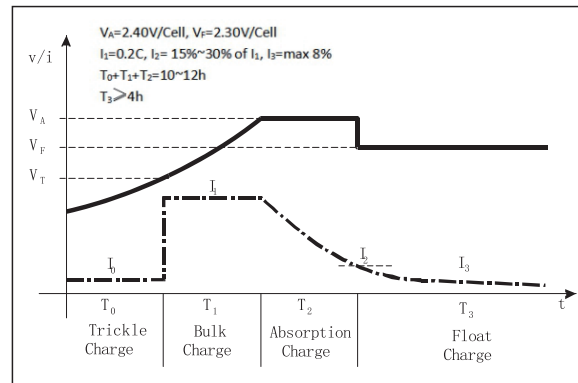
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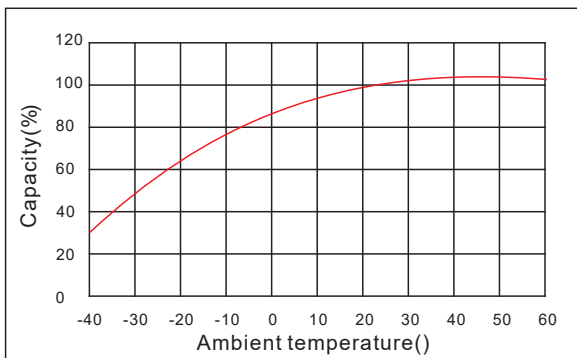
### Discharge characteristic



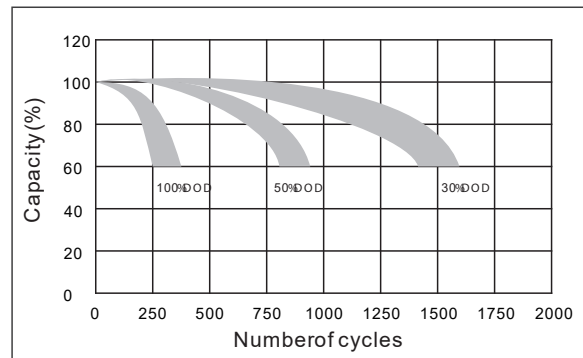
### Charging characteristic



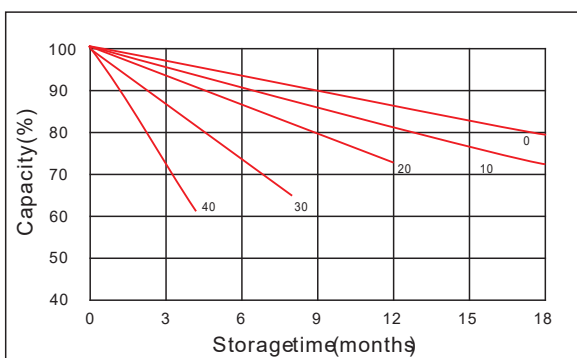
### The effect of temperature on capacity



### The effect of discharge depth on cycle life



### Curves of self discharge



### Curves of open circuit voltage vs. capacity

