

TECHNICAL DATA SHEET

DLC12-135EV



Applications



CYCLIC



STATIONARY



SOLAR



MARINE

Applications

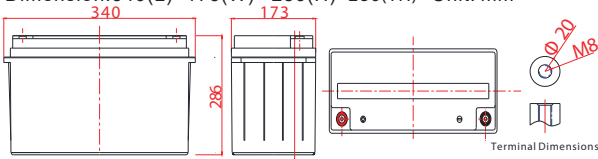
- > Electric vehicle
- > Electric wheelchair
- > Electric scooter
- > Electric play car for children
- > Garbage truck
- > Patrol car

General Features

- > Lead-carbon composite negative plate, both capacitance and battery characteristics
- > Long cycle life, excellent deep cycle discharge ability
- > Excellent charge acceptance ability
- > Optimized capability of instant high-current discharging
- > Strong high and low temperature performance
- > Precision sealing technology



Dimension: 340(L) × 173(W) × 286(H) × 286(TH) Unit: mm



Specification

Nominal Voltage	12V
Nominal Capacity	135Ah
Design life	15 years
Terminal	M8
Approx. Weight	Approx 45.0 kg (99.3 lbs)
Container Material	ABS
Rated Capacity	145Ah → 20Hour Rate (7.25 A to 10.5V)
	136Ah → 10Hour Rate (13.6 A to 10.5V)
	120.5Ah → 5Hour Rate (24.1 A to 10.5V)
Internal resistance	Full charged at 25°C: 3.5 mΩ
Max. Discharge Current	1500A(5S)
Operating Temperature	Discharge:
	Charge: -20 ~50°C (-4~ 122°F) Storage: -20 ~50°C (-4~ 122°F)
Charge current: Max.27.0 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

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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	452	243	148	87.3	51.1	37.1	24.9	16.3	14.0	7.36
1.65V	438	235	145	86.7	50.8	36.7	24.6	16.2	13.8	7.32
1.70V	421	230	143	86.1	50.4	36.2	24.4	16.1	13.7	7.28
1.75V	387	223	141	84.8	49.7	35.8	24.1	15.9	13.6	7.25
1.80V	347	208	135	82.7	48.7	35.5	23.5	15.8	13.4	7.21
1.85V	309	185	123	76.6	46.3	33.5	22.3	15.2	13.0	7.09

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	758	428	267	168	96.6	70.5	47.2	31.8	26.9	14.6
1.65V	729	420	265	167	96.3	69.6	46.9	31.5	26.6	14.5
1.70V	725	415	265	166	95.9	69.2	46.5	31.4	26.3	14.4
1.75V	676	413	263	165	95.4	68.8	46.3	31.1	26.1	14.3
1.80V	621	390	257	163	95.2	68.6	45.8	30.8	25.8	14.3
1.85V	554	349	236	152	90.9	65.2	43.7	29.8	25.4	14.1

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

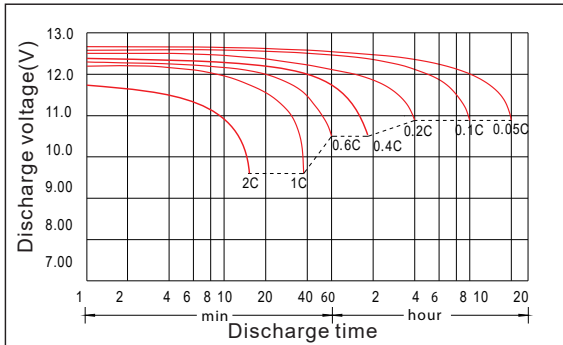
Type of charger	Zivan	AQHF WP	AQHF24-30FC G2
Matching profile	AGM =BA1+CU2	AMG SLA	AGM

Max. charging current 2.4Vpc

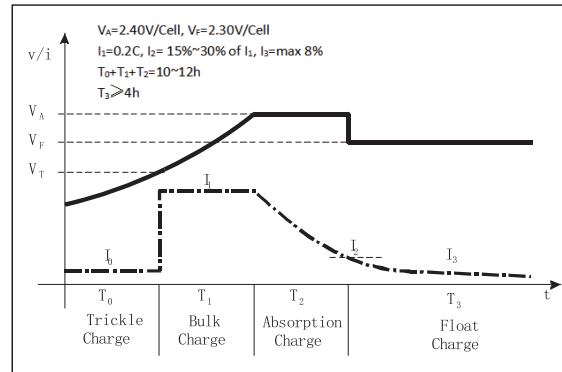
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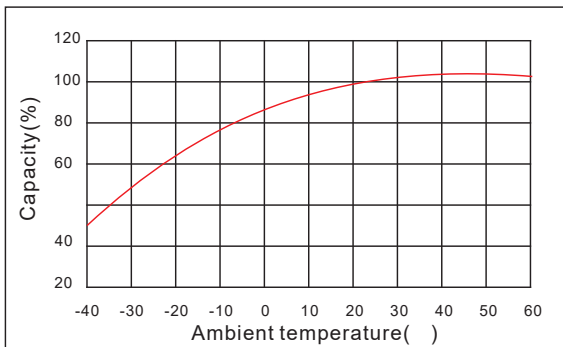
Discharge characteristic



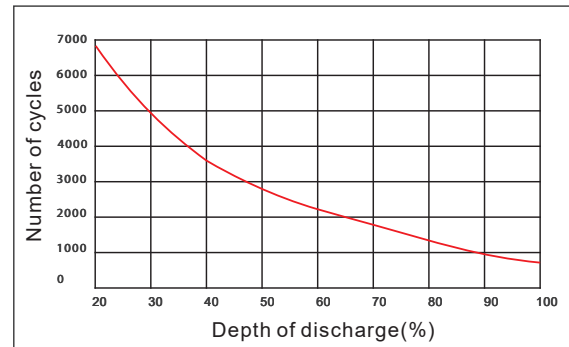
Charging characteristic



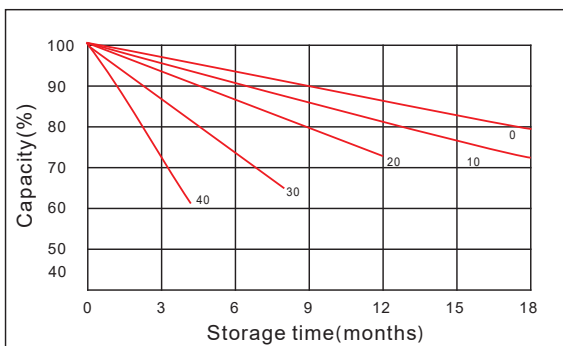
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity

