

TECHNICAL DATA SHEET

DLC8-160EV



Applications



CYCLIC



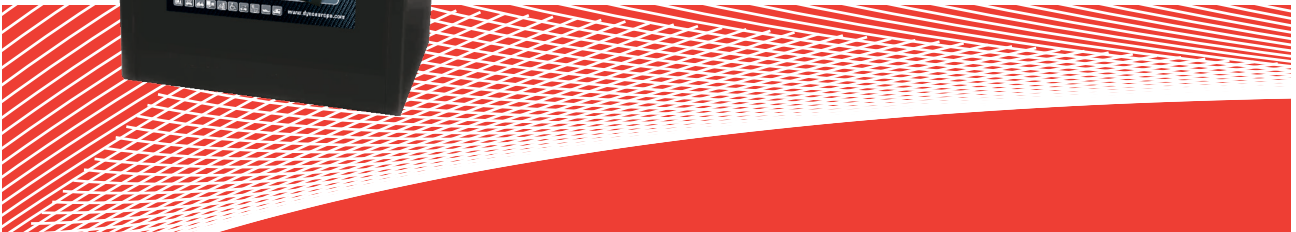
STATIONARY



SOLAR



MARINE

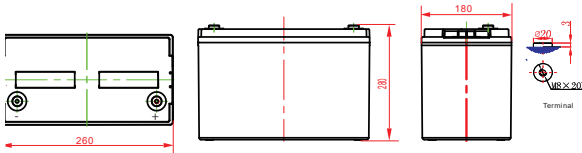


General Features

- > 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: 260(L)×180(W)×280(H)×280(TH) Unit: mm



Specification

Nominal Voltage	8V
Nominal Capacity	185.6Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx33.5kg (73.9lbs)
Container Material	ABS
Rated Capacity	185.6Ah → 20Hour Rate (9.28A to 7V)
	174Ah → 10Hour Rate (17.4A to 7V)
	165Ah → 5Hour Rate (33A to 7V)
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.30.0 A
	Float Charge: 9.0-9.2V, recom.9.2V(-3mVpc/ °C)
	Cycle charge:9.52 -9.6V, recom.9.6V(-5mVpc/ °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	638	343	209	125	69.9	51.8	34.1	21.8	17.9	9.42
1.65V	619	332	205	124	69.6	51.3	33.7	21.7	17.8	9.37
1.70V	594	325	201	123	69.0	50.6	33.4	21.5	17.6	9.32
1.75V	546	315	200	122	68.0	50.0	33.0	21.3	17.4	9.28
1.80V	490	293	191	119	66.7	49.7	32.1	21.1	17.3	9.23
1.85V	437	262	174	110	63.4	46.8	30.5	20.3	16.7	9.07

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	1070	604	377	237	132	98.6	64.6	42.4	34.5	18.6
1.65V	1029	593	374	235	132	97.3	64.3	42.1	34.2	18.5
1.70V	1024	586	374	233	131	96.8	63.7	41.9	33.8	18.5
1.75V	955	583	372	231	131	96.2	63.4	41.6	33.5	18.4
1.80V	877	551	363	229	130	95.9	62.7	41.2	33.1	18.3
1.85V	783	492	333	213	124	91.2	59.8	39.8	32.6	18.1

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

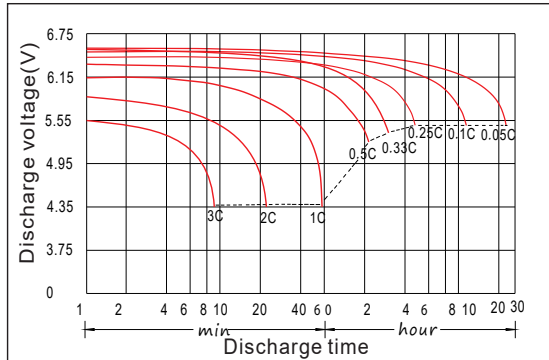
Type of charger	Zivan	AQHF WP	AQHF24-30FC G2
Matching profile	AGM =BA1+CU2	AGM SLA	AGM

Max. charging voltage 2.4Vpc

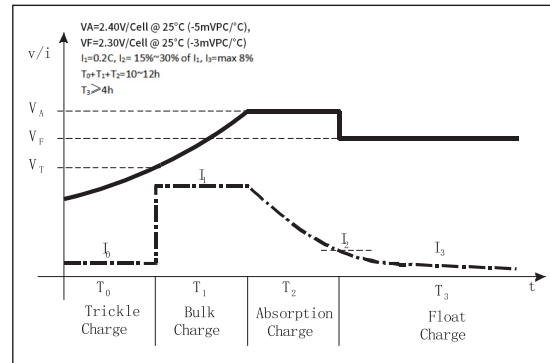
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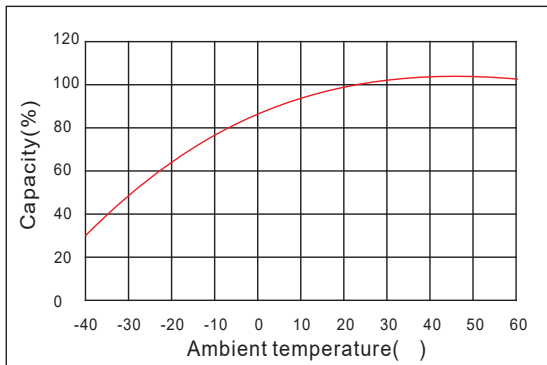
Discharge characteristic



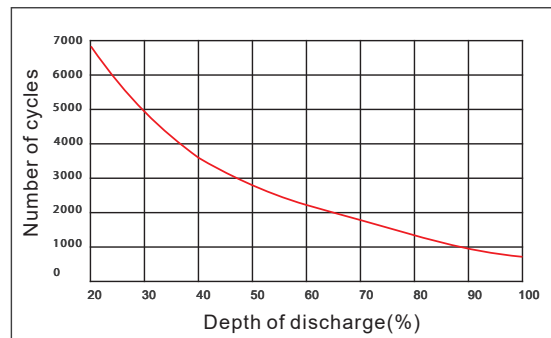
Charging characteristic



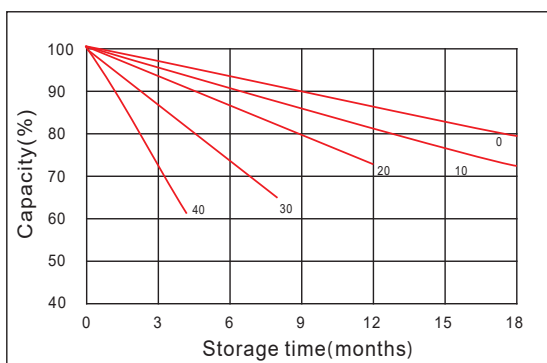
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity

