

TECHNICAL DATA SHEET

DLC12-80EV-M6



Applications



CYCLIC



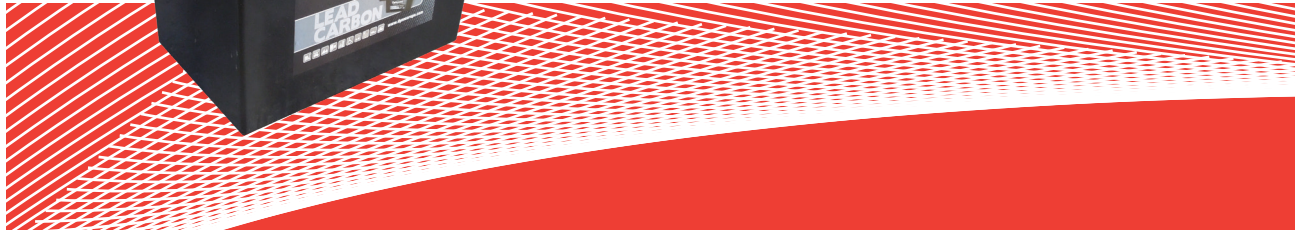
STATIONARY



SOLAR



MARINE



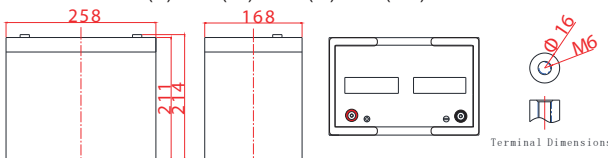
General Features

- > 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



Complies to:
IEC 60896-21/22
IEC 61427-1

Dimension: 258(L) × 168(W) × 211(H) × 214(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	80Ah
Design life	15 years
Terminal	M6
Approx. Weight	Approx 26.4kg (58.2lbs)
Container Material	ABS
Rated Capacity	86.4 Ah 20Hour Rate (4.32 A to 10.8V)
	80.0 Ah 10Hour Rate (8.00 A to 10.8V)
	71.5 Ah 5Hour Rate (14.3 A to 10.8V)
Internal resistance	Full charged at 25°C: 6.6 mΩ
Max. Discharge Current	960A(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:	Max. 16.0 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	288	154	94.0	54.4	31.2	22.6	15.2	9.98	8.40	4.41
1.65V	279	150	92.4	54.1	31.0	22.4	15.0	9.90	8.32	4.39
1.70V	268	147	90.8	53.7	30.8	22.1	14.9	9.82	8.24	4.36
1.75V	246	142	90.0	52.9	30.3	21.9	14.7	9.74	8.16	4.35
1.80V	221	132	86.0	51.5	29.8	21.7	14.3	9.66	8.00	4.32
1.85V	197	118	78.5	47.7	28.3	20.4	13.6	9.26	7.84	4.25

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	482	272	170	103	59.0	43.1	28.8	19.4	16.2	8.73
1.65V	464	267	168	102	58.8	42.5	28.7	19.2	16.0	8.69
1.70V	461	264	168	101	58.6	42.3	28.4	19.2	15.8	8.65
1.75V	430	263	168	100	58.3	42.0	28.3	19.0	15.7	8.61
1.80V	395	248	164	100	58.1	41.9	28.0	18.8	15.5	8.56
1.85V	353	222	150	92.6	55.5	39.8	26.7	18.2	15.3	8.48

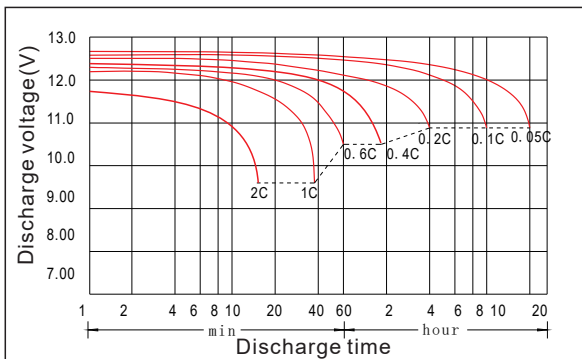
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

Charger recommendations

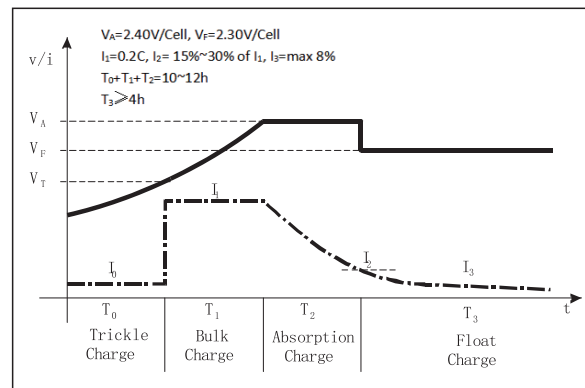
Type of charger	Zivan	AQHF WP	AQHF24-30FC G2
Matching profile	AGM =BA1+CU2	AMG SLA	AGM

Max. charging current 2.4Vpc

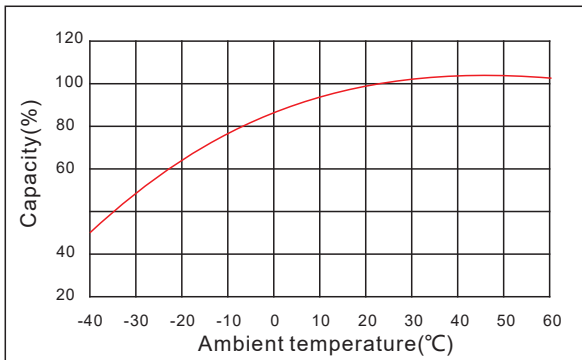
Discharge characteristic



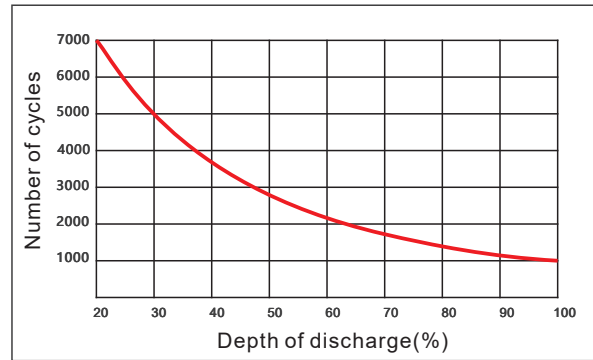
Charging characteristic



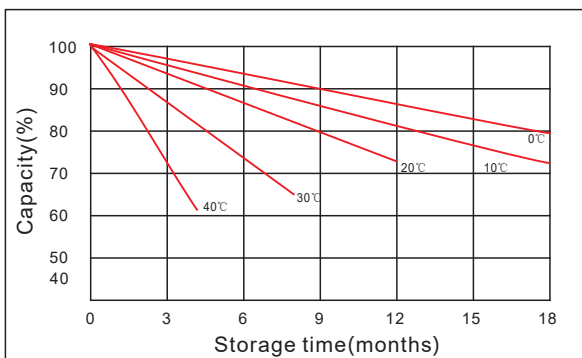
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity

