

# TECHNICAL DATA SHEET

## DLC12-55EV



### Applications



CYCLIC



STATIONARY



SOLAR



MARINE

### Applications

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

### General Features

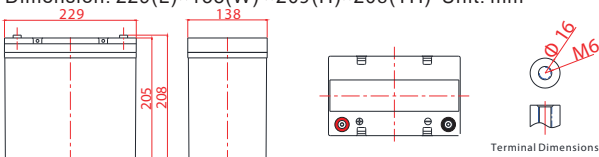
- > Lead-carbon composite negative plate, both capacitance and battery characteristics
- > Long cycle life, excellent deep cycle discharge ability
- > Excellent charge acceptance ability
- > Optimized capability of instant high-current discharging
- > Strong high and low temperature performance Precision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

### Specification

Nominal Voltage	12V
Nominal Capacity	55Ah
Design life	15 years
Terminal	M6
Approx. Weight	Approx 17.5kg (38.6lbs)
Container Material	ABS
Rated Capacity	59.5 Ah 20Hour Rate (2.99 A to 10.5V)
	56.1 Ah 10Hour Rate (5.61 A to 10.5V)
	50.5 Ah 5Hour Rate (10.1 A to 10.5V)
Internal resistance	Full charged at 25°C: 8.5 mΩ
Max. Discharge Current	660A(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.11.0A
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



Dimension: 229(L)×138(W)×205(H)×208(TH) Unit: mm



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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	198	106	64.6	37.4	21.4	15.6	10.5	6.86	5.78	3.03
1.65V	192	103	63.5	37.2	21.3	15.4	10.3	6.81	5.72	3.02
1.70V	184	101	62.4	36.9	21.2	15.2	10.2	6.75	5.67	3.00
1.75V	169	97.5	61.9	36.4	20.9	15.0	10.1	6.70	5.61	2.99
1.80V	152	90.9	59.2	35.4	20.5	14.9	9.85	6.64	5.50	2.97
1.85V	135	81.0	54.0	32.8	19.4	14.0	9.36	6.37	5.39	2.92

### 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	331	187	117	70.7	40.6	29.6	19.8	13.3	11.1	6.00
1.65V	319	184	116	70.2	40.4	29.2	19.7	13.2	11.0	5.97
1.70V	317	182	116	69.6	40.3	29.1	19.5	13.2	10.9	5.94
1.75V	296	180	115	69.1	40.1	28.9	19.4	13.1	10.8	5.92
1.80V	272	171	112	68.5	40.0	28.8	19.2	13.0	10.7	5.89
1.85V	243	153	103	63.6	38.2	27.4	18.3	12.5	10.5	5.83

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

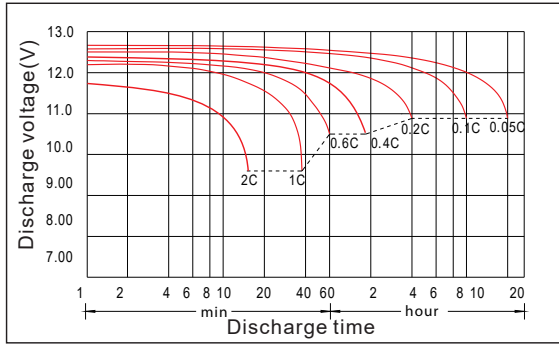
Type of charger	Zivan	AQHF WP	AQHF24-30FC G2
Matching profile	AGM =BA1+CU2	AMG SLA	AGM

**Max. charging current 2.4Vpc**

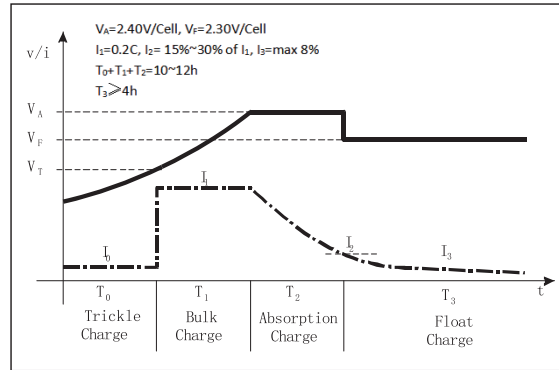
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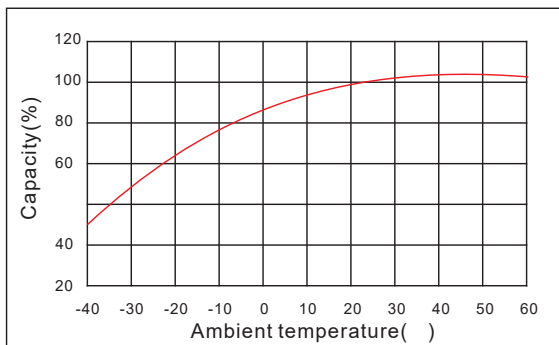
### Discharge characteristic



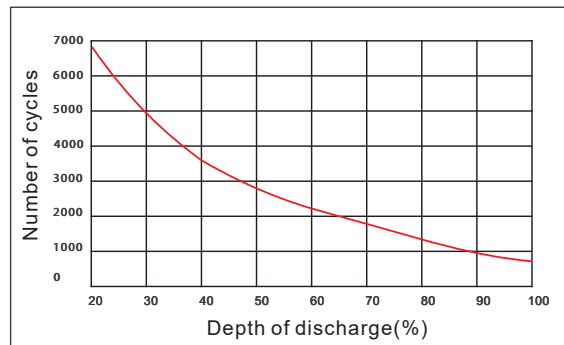
### Charging characteristic



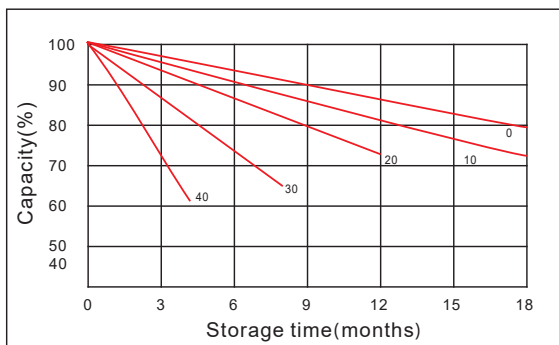
### The effect of temperature on capacity



### The effect of discharge depth on cycle life



### Curves of self-discharge



### Curves of open circuit voltage vs. capacity

