

# TECHNICAL DATA SHEET

## DLC12-250EV

### Applications



CYCLIC



STATIONARY



SOLAR



MARINE



### Applications

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

### Specification

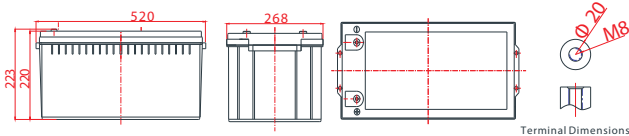
Nominal Voltage	12V
Nominal Capacity	250Ah
Design life	15 years
Terminal	M8
Approx. Weight	Approx 70.5kg (155lbs)
Container Material	ABS
Rated Capacity	<b>270Ah</b> 20Hour Rate (13.5 A to 10.5V)
	<b>253Ah</b> 10Hour Rate (25.3 A to 10.5V)
	<b>228Ah</b> 5Hour Rate (45.6 A to 10.5V)
Internal resistance	Full charged at 25°C: 2.7 mΩ
Max. Discharge Current	3000A(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.50.0 A
Charge Method (25 °C)	Float Charge:13.5-13.8V,recom.13.8V(-18mV/ °C)
	Cycle charge:14.28-14.4 V,recom.14.4V(-30mV/ °C)
Self discharge	3% of capacity declined per month at 25°C

### 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:520(L)×268(W) ×220(H)×223(TH) Unit: mm



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### Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	473	288	168	96.5	70.1	47.0	30.9	26.0	13.7
1.65V	459	283	167	96.0	69.3	46.6	30.6	25.8	13.6
1.70V	449	278	166	95.3	68.4	46.1	30.4	25.5	13.5
1.75V	434	276	164	93.8	67.6	45.6	30.1	25.3	13.5
1.80V	405	264	159	92.1	67.1	44.3	29.9	25.0	13.4
1.85V	361	241	148	87.5	63.2	42.1	28.7	24.3	13.2

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

FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	834	521	318	183	133	89.2	60.0	50.0	27.0
1.65V	819	516	316	182	132	88.7	59.5	49.5	26.9
1.70V	809	516	313	181	131	88.0	59.3	49.0	26.8
1.75V	804	514	311	180	130	87.5	58.8	48.5	26.6
1.80V	760	501	308	180	130	86.5	58.3	48.0	26.5
1.85V	680	460	286	172	123	82.6	56.3	47.3	26.3

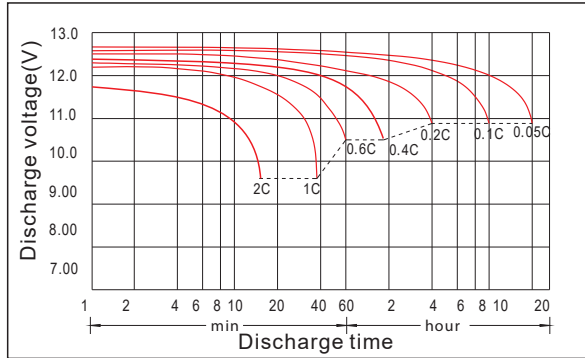
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

### Charger recommendations

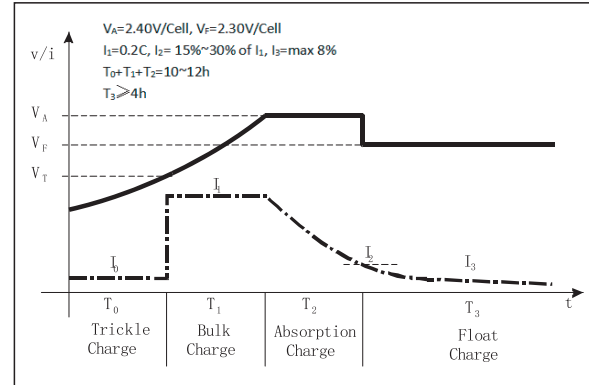
Type of charger	Zivan	AQHF WP	AQHF24-30FC G2
Matching profile	AGM =BA1+CU2	AMG SLA	AGM

**Max. charging current 2.4Vpc**

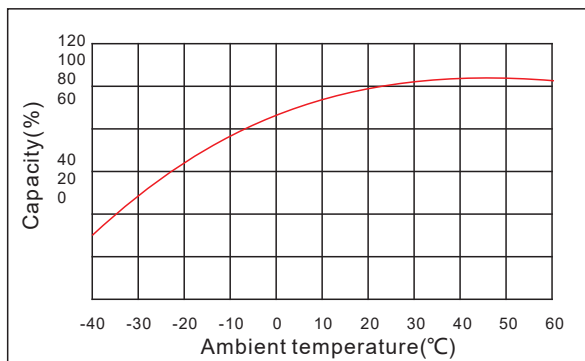
### Discharge characteristic



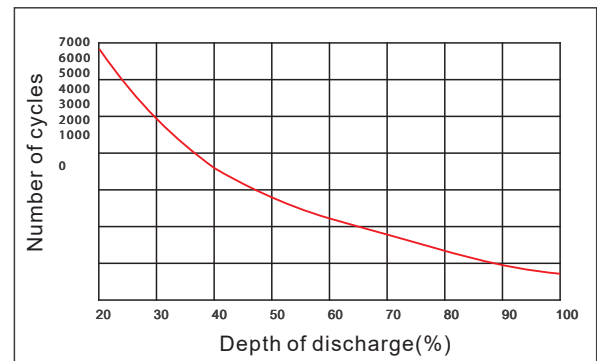
### Charging characteristic



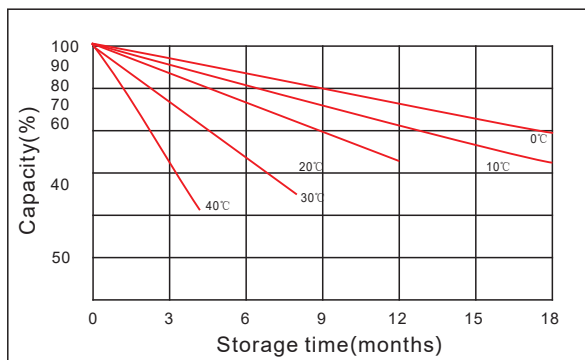
### The effect of temperature on capacity



### The effect of discharge depth on cycle life



### Curves of self-discharge



### Curves of open circuit voltage vs. capacity

