Electric vehicle battery expert 6-DZF-12.9

General Features

▶High corrosion resistant performance: Pb-Ca multi-alloy grid

▶High energy density and power density

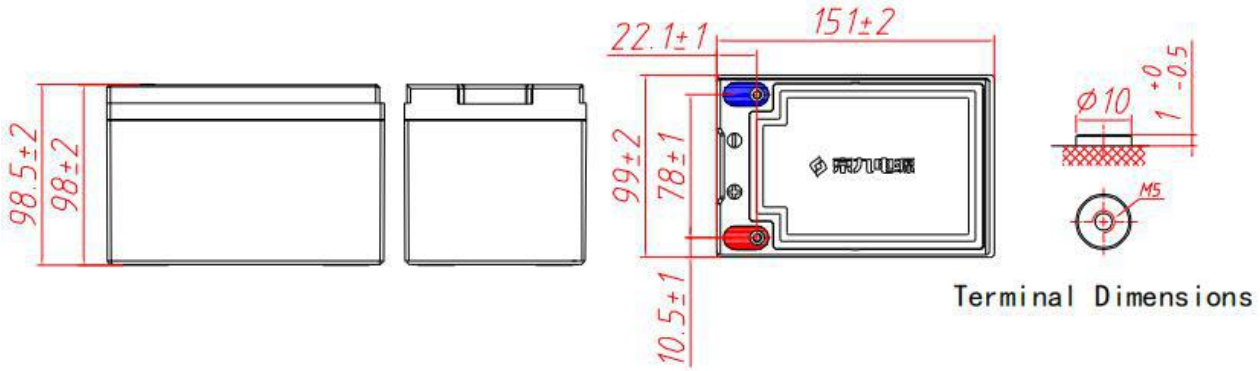
▶Optimized capability of instant high-current discharging

▶Excellent charge acceptance ability

▶Strong high and low temperature performance

▶Low self-discharge rate

Dimension:151(L)×99(W) ×98(H)×98.5(TH) **Unit: mm**



Specification	
Nominal Voltage	12V
Nominal Capacity	12.9Ah
Design life	5 years
Terminal	M5
Approx. Weight	Approx4.0kg (8.80lbs)
Container Material	ABS
Self discharge	3% of capacity declined per month at 25°C
Rated Capacity	
10Hour Rate (1.42A to 10.5V)	14.2Ah
2Hour Rate (6.45A to 10.5V)	12.9Ah
1Hour Rate (11.9A to 10.5V)	11.9Ah
Operating Temperature	
Discharge:	-20 ~50℃(-4~ 122°F)
Charge :	-20 ~50℃(-4~ 122°F)
Storage:	-20 ~50℃(-4~ 122°F)
Charge Method(25 °C)	
Max charge current	1.94A
Float Use:	13.7-13.9V@25
Cycle Use :	14.7-14.9V,@25

Standards

Executive standard :T/ZJXDC 001-2021

Applications

▶Electric vehicle

▶Electric wheelchair

▶Electric scooter

▶Electric play car for children

▶Garbage truck

▶Patrol car

Attain Certificate

ISO 9001 CQM · ISO 14001 CQM · OHSAS 18001 CQM · RoHS

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.

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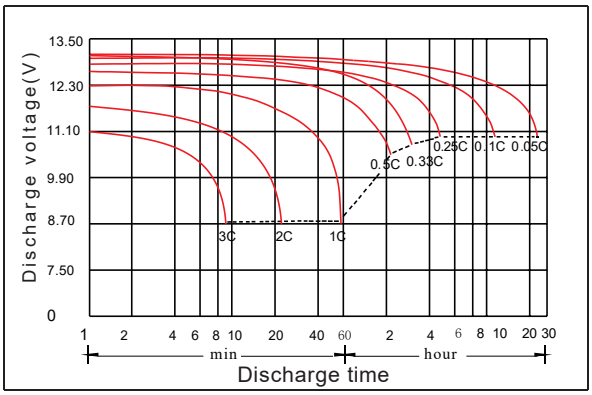
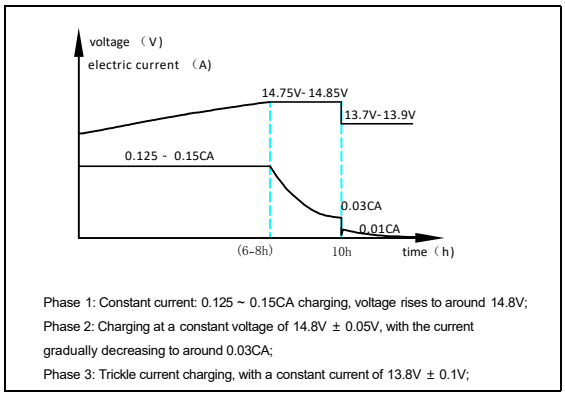
Discharge characteristic

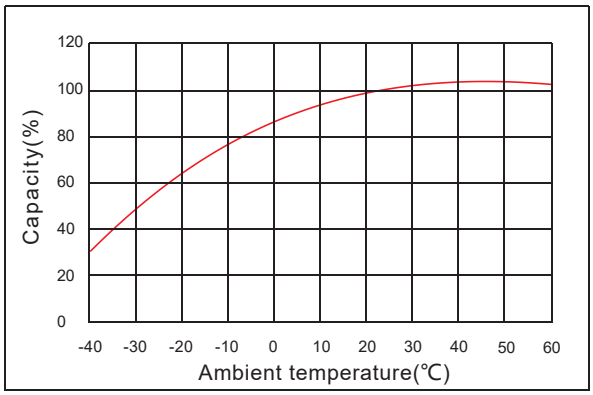


Charging characteristic

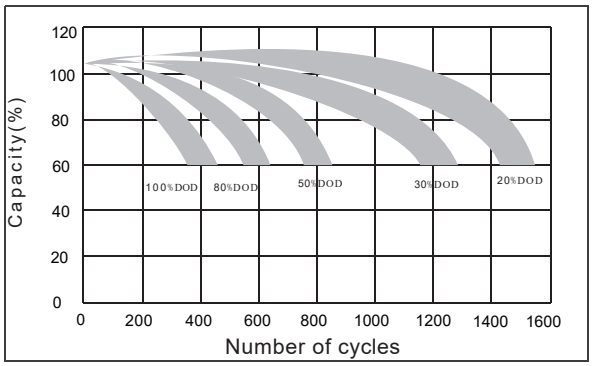


Phase 1: Constant current: 0.125 ~ 0.15CA charging, voltage rises to around 14.8V;
Phase 2: Charging at a constant voltage of 14.8V ± 0.05V, with the current gradually decreasing to around 0.03CA;
Phase 3: Trickle current charging, with a constant current of 13.8V ± 0.1V;

The effect of temperature on capacity



The effect of discharge depth on cycle life



Constant Current Discharge Characteristics Unit:A (25℃,77℉)

FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	63.0	33.8	19.4	12.2	6.64	4.56	2.78	1.73	1.46	0.812
1.65V	61.0	32.8	19.0	12.2	6.60	4.53	2.77	1.72	1.45	0.808
1.70V	58.6	32.2	18.6	12.1	6.55	4.45	2.73	1.70	1.43	0.803
1.75V	53.9	31.0	18.5	11.9	6.45	4.40	2.70	1.69	1.42	0.800
1.80V	48.3	29.0	17.7	11.6	6.34	4.38	2.63	1.69	1.41	0.797
1.85V	43.1	25.8	16.2	10.7	6.01	4.13	2.50	1.61	1.36	0.782

Constant Power Discharge Characteristics Unit: W/cell (25℃ ,77℉)

FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	105.7	59.6	35.1	23.2	12.5	8.69	5.28	3.37	2.81	1.61
1.65V	101.5	58.6	34.7	23.0	12.5	8.58	5.25	3.34	2.78	1.60
1.70V	101.1	57.8	34.7	22.8	12.5	8.53	5.22	3.33	2.75	1.59
1.75V	94.2	57.6	34.5	22.6	12.4	8.47	5.19	3.31	2.73	1.59
1.80V	86.6	54.4	33.6	22.4	12.3	8.46	5.12	3.28	2.70	1.58
1.85V	77.3	48.7	30.8	20.8	11.8	8.04	4.89	3.17	2.66	1.56

Jiangxi JingJiu Power Science & Technology Co., LTD.

Add: 1388 Fushan No.1 Street, Xiaolan Economic Development Zone, Nanchang, Jiangxi, China.