

6-DZF-20



Applications

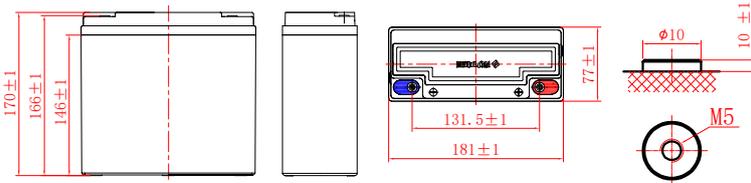
- > Electric vehicle
- > Electric wheelchair
- > Electric scooter
- > Electric play car for children
- > Garbage truck
- > Patrol car

General Features

- > High Corrosion Resistant Performance: Pb-Ca multi-alloy grid
- > High Energy Density and Power Density
- > Excellent Charge Acceptance Ability
- > Strong High and Low Temperature Performance
- > Optimized Capability of instant High-current Discharging
- > Low self-discharge rate



Dimension: 181(L)×77(W)×170(H)×170(TH) Unit: mm



Specification

Nominal Voltage	12V
Nominal Capacity	23Ah
Design life	5 years
Terminal	M5
Approx. Weight	Approx6.70kg (14.8lbs)
Container Material	ABS
	25.0Ah 10Hour Rate (2.50A to 10.5V)
	23.0Ah 2Hour Rate (11.5A to 10.5V)
	19.0Ah 1Hour Rate (19.0A to 10.5V)
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)	Float Use:13.7-13.9V@25°C Cycle Use :14.7-14.9V,@25°C Max charge current 3.45A
Self discharge	3% of capacity declined per month at 25°C

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

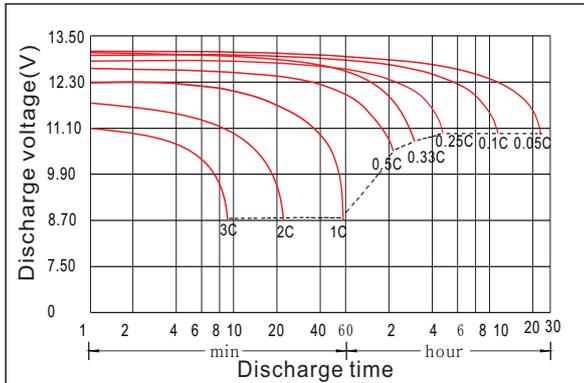
FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	116	62.1	35.6	19.5	11.8	8.19	4.95	3.05	2.57	1.42
1.65V	112	60.3	35.0	19.4	11.8	8.13	4.92	3.03	2.55	1.41
1.70V	108	59.2	34.3	19.3	11.7	8.00	4.86	3.00	2.52	1.41
1.75V	99.0	57.0	34.0	19.0	11.5	7.90	4.80	2.97	2.50	1.40
1.80V	88.8	53.3	32.5	18.5	11.3	7.87	4.68	2.97	2.48	1.39
1.85V	79.3	47.5	29.7	17.2	10.7	7.41	4.45	2.83	2.40	1.37

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

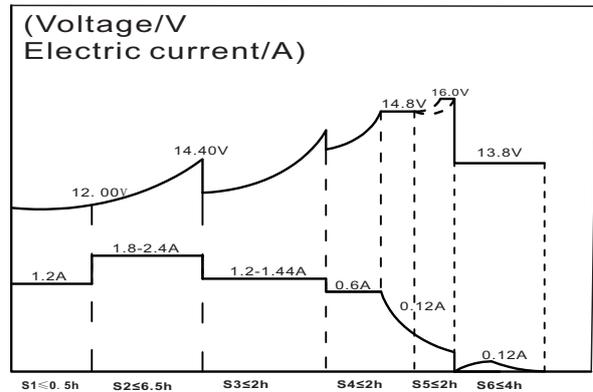
FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	194	110	64.4	37.1	22.4	15.6	9.40	5.94	4.95	2.81
1.65V	187	108	63.8	36.8	22.3	15.4	9.34	5.89	4.90	2.80
1.70V	186	106	63.8	36.5	22.2	15.3	9.28	5.86	4.84	2.79
1.75V	173	106	63.4	36.1	22.1	15.2	9.22	5.83	4.81	2.77
1.80V	159	100	61.7	35.8	22.0	15.2	9.10	5.78	4.76	2.76
1.85V	142	89.5	56.6	33.2	21.0	14.4	8.69	5.58	4.68	2.73

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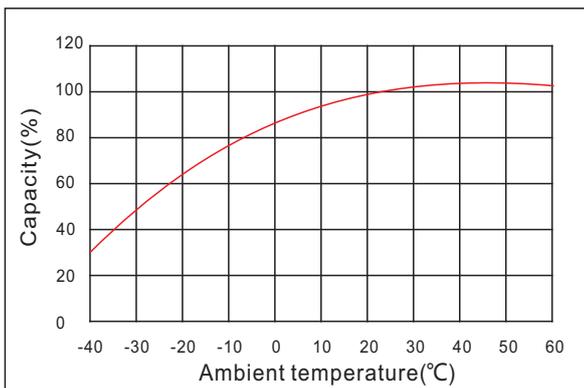
Discharge characteristic



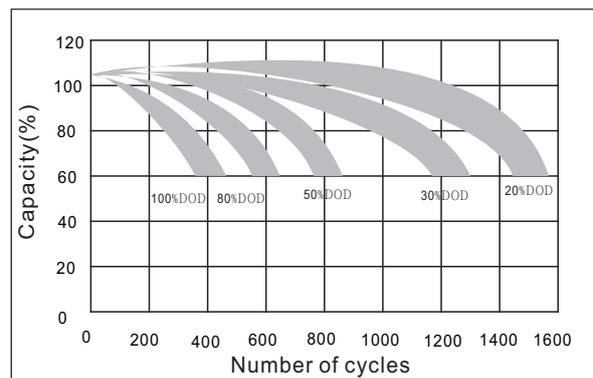
Charging characteristic



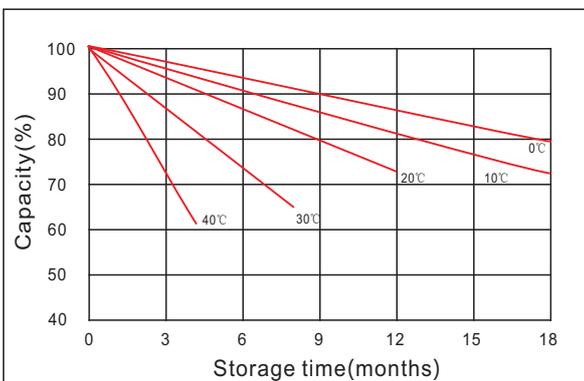
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity

