

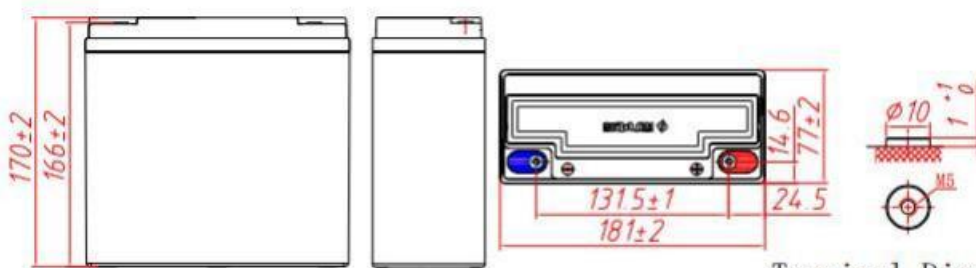
BATTERY Samson VEV12-23 Electric vehicle battery

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



Terminal Dimensions

Specification:	
Nominal Voltage	12V
Nominal Capacity	23Ah
Design life	5 years
Terminal	M5
Approx. Weight	6.75kg (14.88bs)
Container Material	ABS
Self discharge	3% of capacity declined per month at 25°C
Rated Capacity:	
10 Hour Rate (2.50A to 10.5V)	25 Ah
2 Hour Rate (11.5A to 10.5V)	23 Ah
1 Hour Rate (19.0A to 10.5V)	19 Ah
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):	
Max charge current	3.45 A
Float Use:	13.7-13.9V,@25
Cycle Use :	14.7-14.9V,@25

Standards:

Executive standard :T/ZJXDC 001-2021

Applications:

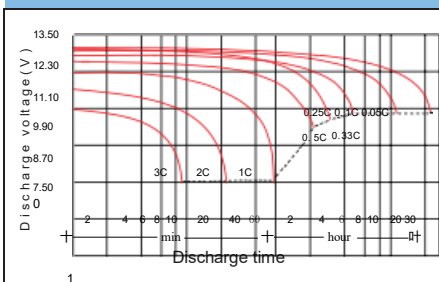
- >Electric vehicle
- >Electric medical equipment
- >Electric wheelchair
- >Electric scooter
- >Electric play car for children
- >Garbage truck
- >Patrol car
- >Emergency lighting
- >Power supply

Attain Certificate:

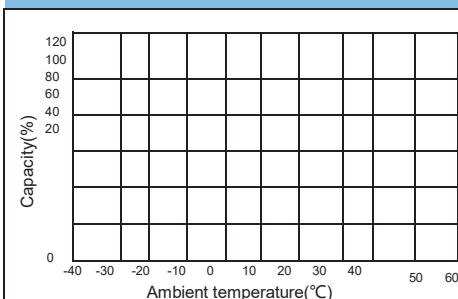


Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

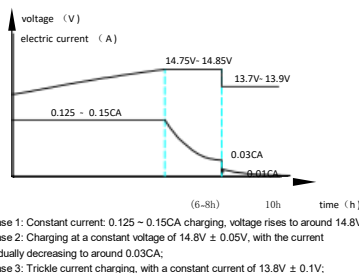
Discharge characteristic:



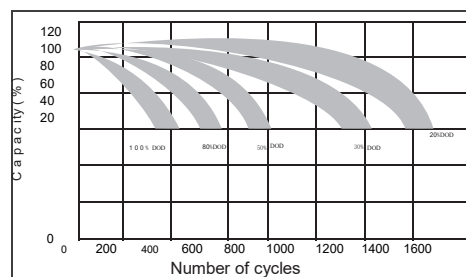
The effect of temperature on capacity:



Charging characteristic:



The effect of discharge depth on cycle life:



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

Subject to revision without notice. Please contact our sales representatives for latest version.

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