

BATTERY Samson

V6-EVF-45



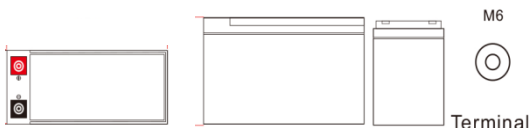
Electric vehicle battery expert

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: 223(L)×121(W)×175(H)×175(TH) Unit: mm



Applications

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

Specification

Nominal Voltage	12V
Nominal Capacity	45Ah
Design life	5 years
Terminal	M6
Approx. Weight	Approx 12.8kg (28.2lbs)
Container Material	ABS
Rated Capacity	52.3Ah 10Hour Rate (5.23A to 10.5V)
	45.0Ah 3Hour Rate (15.0A to 10.5V)
	35.6Ah 1Hour Rate (35.6A 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 9.0A
Self discharge	3% of capacity declined per month at 25°C

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

F.V/Time	5Min	15Min	30Min	1h	2h	3h	5h	8h	10h	20h
1.60V	191	103	62.6	36.6	21.0	15.5	10.2	6.55	5.39	2.83
1.65V	186	99.8	61.5	36.4	20.9	15.4	10.1	6.50	5.33	2.81
1.70V	179	97.5	60.5	36.1	20.7	15.2	10.0	6.44	5.28	2.80
1.75V	164	94.5	59.9	35.6	20.4	15.0	9.90	6.39	5.23	2.78
1.80V	147	87.8	57.3	34.7	20.0	14.9	9.68	6.35	5.18	2.77
1.85V	131	78.8	52.3	32.1	19.0	14.0	9.15	6.08	5.02	2.72

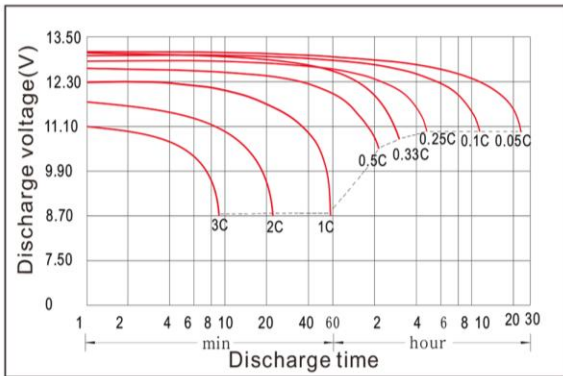
Constant Power Discharge Characteristics Unit: W/cell(25°C, 77°F)

F.V/Time	5Min	15Min	30Min	1h	2h	3h	5h	8h	10h	20h
1.60V	321	182	113	69.2	39.7	29.6	19.4	12.8	10.4	5.59
1.65V	309	178	113	68.6	39.6	29.2	19.3	12.6	10.3	5.57
1.70V	308	176	113	68.1	39.4	29.0	19.1	12.6	10.1	5.54
1.75V	287	175	112	67.6	39.2	28.9	19.0	12.5	10.1	5.51
1.80V	263	165	109	67.1	39.1	28.7	18.8	12.4	9.90	5.48
1.85V	235	148	100	62.3	37.4	27.4	17.9	11.9	9.75	5.44

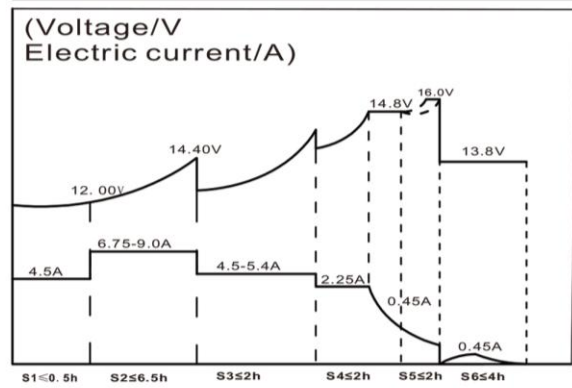
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

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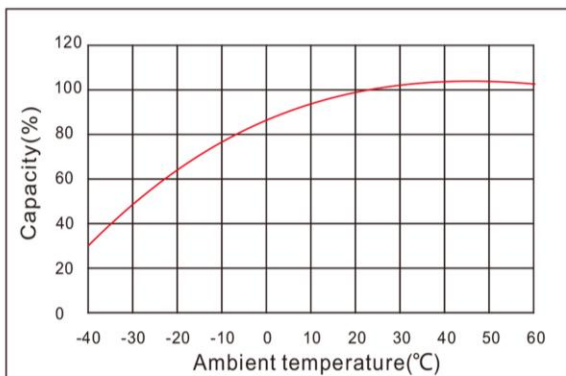
Discharge characteristic



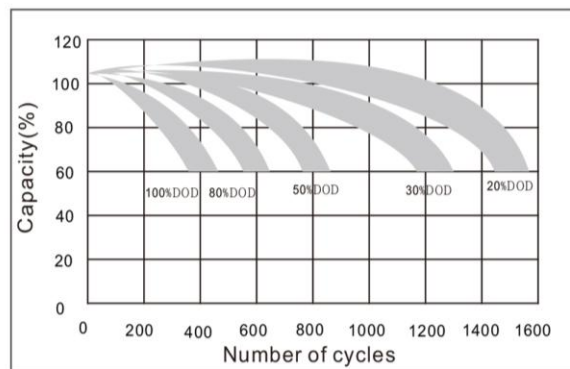
Charging characteristic



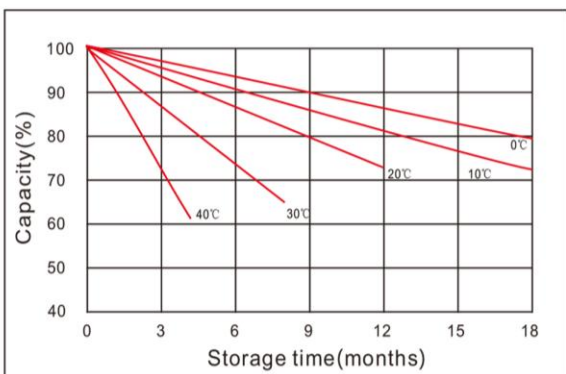
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity

