

JS12-4.0



JS Series lead-acid battery

Applications

- > UPS/EPS
- > Power systems
- > Telecommunications system
- > Emergency lighting、Auto control system
- > Solar/wind generating storage cyclic
- > Other general purpose

General Features

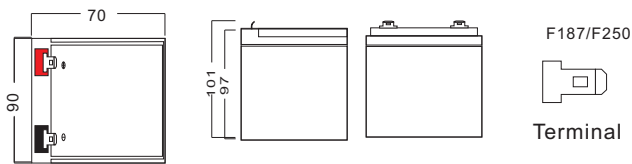
- > High corrosion resistant performance: Pb-Ca multi-alloy grid
- > High energy density and power density
- > Optimized capability of instant high-current discharging
- > Excellent charge acceptance ability
- > Excellent deep cycle discharge capability
- > Strong high and low temperature performance
- > Precision sealing technology

Specification

Nominal Voltage	12V
Nominal Capacity	4.0Ah
Design life	5 years
Terminal	F187/F250
Approx. Weight	Approx1.40kg (3.09lbs)
Container Material	ABS
Rated Capacity	4.00Ah 20Hour Rate(0.20A to 10.5V)
	3.12Ah 3Hour Rate (1.04A to 10.5V)
	2.64Ah 1Hour Rate (2.64A to 9.60V)
Internal resistance	Full charged at 25°C: 42.0 mΩ
Max. Discharge Current	60.0A(5S)
Operating Temperature	Discharge: -20 ~50°C(-4~ 122°F)
	Charge: -20 ~50°C(-4~ 122°F)
	Storage: -20 ~50°C(-4~ 122°F)
Charge current:	Max.1.00A ; Recom.0.40A
Charge Method (25 °C)	Float Charge:13.5-13.8V,recom.13.5V(-18mV/ °C)
	Equalize charge:13.8-14.1V,recom.14.1V(-24mV/ °C)
	Cycle charge:14.4-15.0V,recom.14.4V(-30mV/ °C)
Self discharge	3% of capacity declined per month at 25°C



Dimension: 90(L)×70(W)×97(H)×101(TH) Unit: mm



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

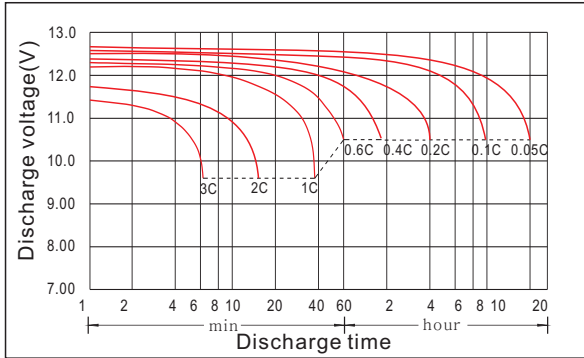
FV/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	15.8	10.4	7.72	5.06	2.64	1.51	1.10	0.884	0.752	0.496	0.396	0.212
1.65V	15.7	9.92	7.08	4.80	2.48	1.45	1.07	0.856	0.736	0.488	0.392	0.208
1.70V	12.9	9.32	6.60	4.66	2.40	1.42	1.05	0.812	0.728	0.480	0.384	0.204
1.75V	12.0	8.88	6.16	4.55	2.32	1.39	1.04	0.800	0.696	0.468	0.376	0.200
1.80V	11.0	8.36	5.72	4.40	2.24	1.35	0.980	0.784	0.668	0.456	0.368	0.192

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

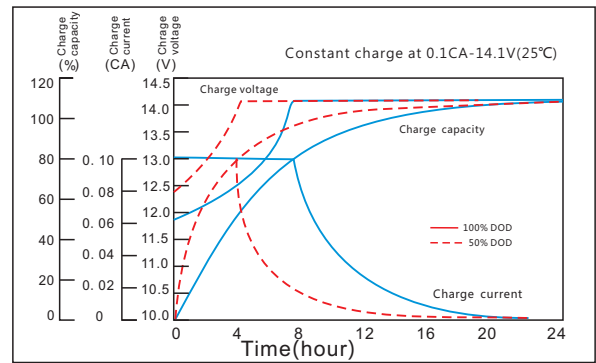
FV/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	29.7	18.7	14.1	8.55	4.84	2.83	2.09	1.67	1.42	0.936	0.767	0.420
1.65V	27.4	17.7	13.3	8.49	4.55	2.73	2.03	1.62	1.39	0.922	0.753	0.409
1.70V	25.1	17.1	12.7	8.46	4.41	2.67	1.99	1.54	1.35	0.913	0.747	0.405
1.75V	22.7	16.6	12.2	8.37	4.29	2.61	1.97	1.52	1.33	0.875	0.729	0.397
1.80V	20.4	16.1	11.7	8.31	4.23	2.59	1.91	1.51	1.29	0.846	0.715	0.394

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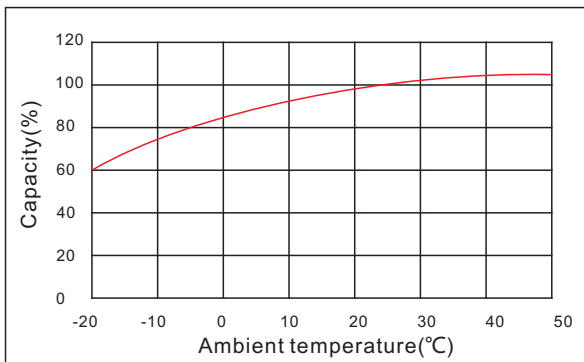
Discharge characteristic



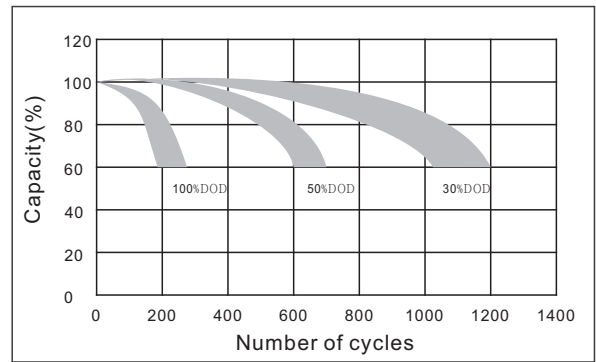
Charging characteristic



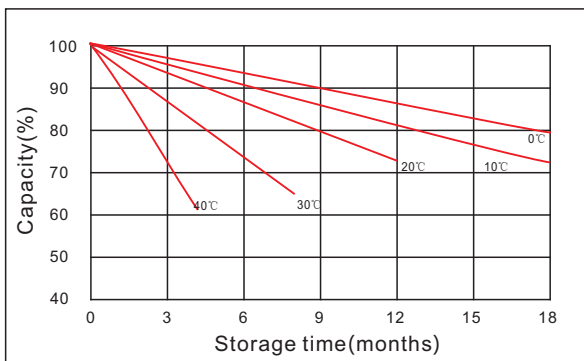
The effect of temperature on capacity



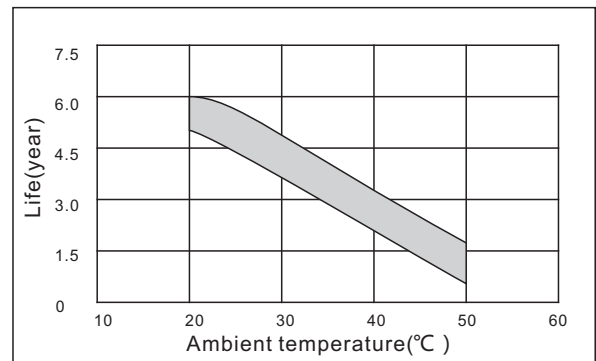
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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