

JS12-4.5

JS Series lead-acid battery

Executive standard GB/T 19639.1-2014



Applications

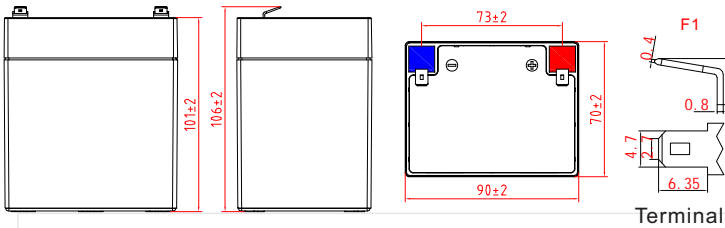
- > UPS/EPS
- > Power systems
- > Telecommunications system
- > Emergency lighting、Auto control system
- > Solar/wind generating storage cyclic
- > Other general purpose

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



Dimension: 90(L)×70(W)×101(H)×106(TH) Unit: mm



Specification

Nominal Voltage	12V
Nominal Capacity	4.5Ah
Design life	5 years
Terminal	F1/F2
Approx. Weight	Approx 1.46kg (3.21lbs)
Container Material	ABS
Rated Capacity	4.50Ah → 20Hour Rate (0.225A to 10.5V)
	3.51Ah → 3Hour Rate (1.17A to 10.2V)
	3.22Ah → 1Hour Rate (3.22A to 9.60V)
Internal resistance	Full charged at 25°C: 48.0 mΩ
Max. Discharge Current	54A(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.1.13A ; Recom.0.45A
Charge Method (25 °C)	Float Charge:13.5-13.8V,recom.13.8V(-18mV/ °C)
	Equalize charge:13.8-14.1V,recom.14.1V(-24mV/ °C)
	Cycle charge:14.4-15.0V,recom.14.7V(-30mV/ °C)
Self discharge	3% of capacity declined per month at 25°C

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

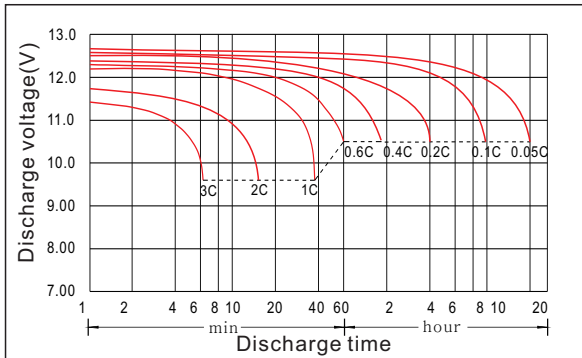
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	18.9	13.6	10.6	4.50	3.95	3.22	2.51	1.70	1.22	0.994	0.846	0.643	0.559	0.441	0.238
1.65V	17.2	12.5	9.94	4.27	3.77	3.07	2.40	1.63	1.19	0.964	0.829	0.636	0.549	0.436	0.234
1.70V	16.5	12.0	9.64	4.17	3.68	3.00	2.36	1.60	1.17	0.913	0.819	0.623	0.540	0.426	0.229
1.75V	15.2	11.3	9.11	3.99	3.58	2.91	2.29	1.56	1.15	0.900	0.784	0.611	0.527	0.419	0.225
1.80V	14.0	10.5	8.66	3.82	3.43	2.80	2.21	1.52	1.09	0.881	0.752	0.598	0.514	0.410	0.216
1.85V	11.9	8.94	7.42	3.38	3.10	2.52	2.03	1.45	1.02	0.855	0.718	0.579	0.474	0.393	0.212

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

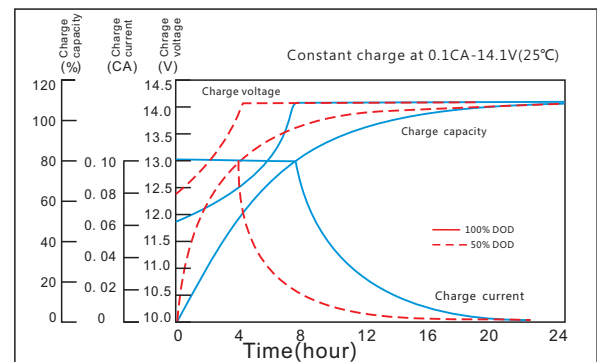
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	34.1	24.6	19.4	8.33	7.43	6.05	4.76	3.19	2.31	1.88	1.60	1.22	1.05	0.853	0.473
1.65V	31.3	23.0	18.4	8.01	7.11	5.81	4.59	3.08	2.26	1.82	1.57	1.20	1.04	0.838	0.459
1.70V	30.2	22.3	18.0	7.82	6.97	5.73	4.52	3.00	2.22	1.73	1.52	1.18	1.02	0.831	0.456
1.75V	28.3	21.2	17.2	7.58	6.80	5.57	4.41	2.94	2.18	1.71	1.49	1.16	0.994	0.812	0.446
1.80V	26.3	20.1	16.5	7.30	6.53	5.40	4.29	2.93	2.12	1.70	1.46	1.14	0.971	0.795	0.443
1.85V	22.8	17.1	14.2	6.53	6.00	4.89	3.94	2.80	2.00	1.67	1.42	1.11	0.943	0.782	0.439

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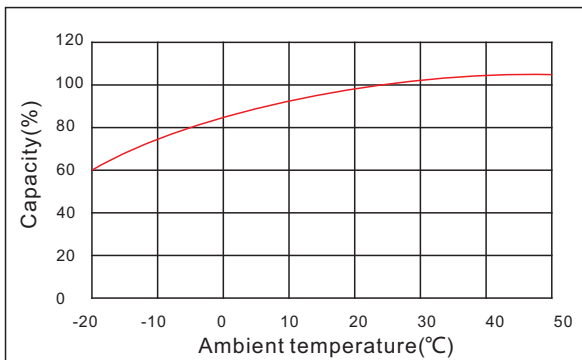
Discharge characteristic



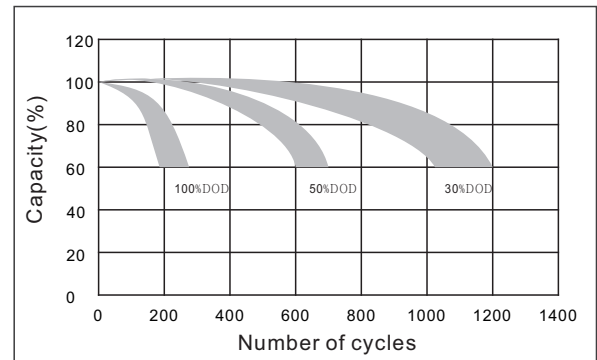
Charging characteristic



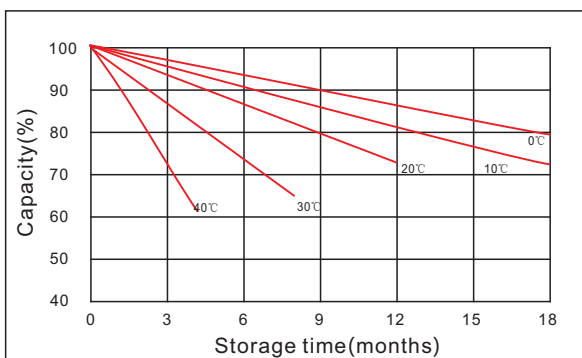
The effect of temperature on capacity



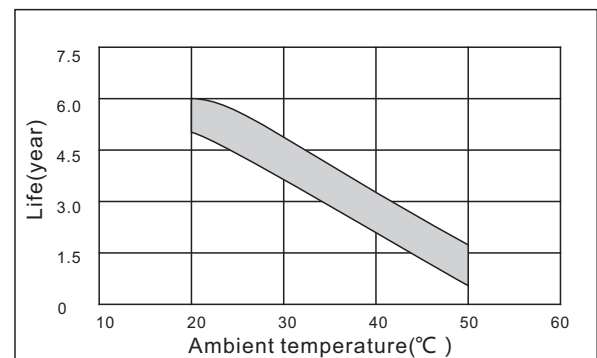
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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