



JS Series lead-acid battery JS12-4.0

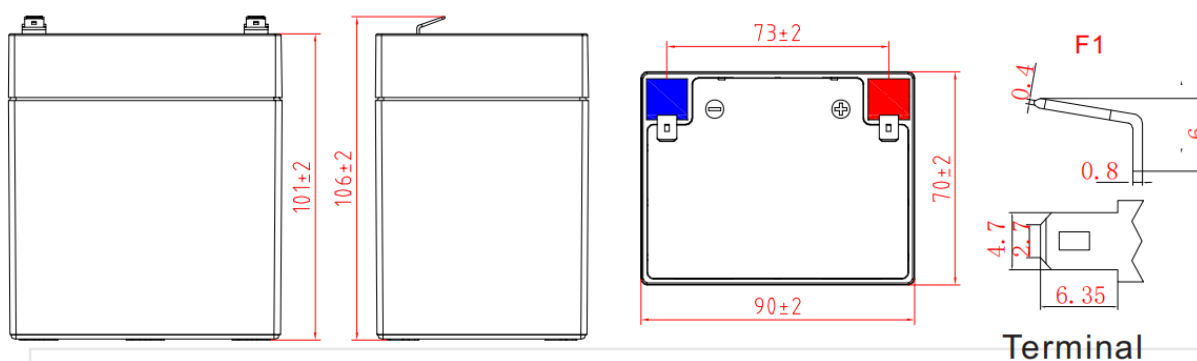
General Features

- ▶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)/(±2.0)

Unit: mm



Specification

Nominal Voltage	12V
Nominal Capacity	4.0Ah@20hour-rate to 1.75V per cell @25°C
Design life	5 years
Terminal	F1/F2
Approx. Weight	Approx1.33kg±3% (2.93lbs±3%)
Container Material	ABS(UL94-HB, UL94-V0 Optional)
short-circuit current	200A
Internal resistance(Full charged at 25°C:)	60.0 mΩ
Self discharge	3% of capacity declined per month at 25°C

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)

Charge current:	Max. 1.00A;Recom.0.40A
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)

Standards

Executive standard: IEC 61056-2,
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

Rated Capacity

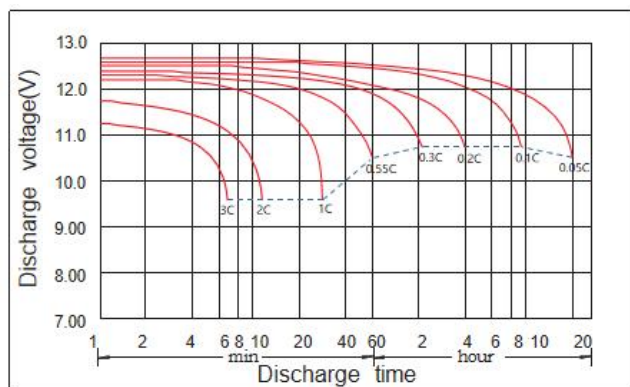
20Hour Rate (0.200A to 10.5V)	4.00Ah
3Hour Rate (1.042A to 10.2V)	3.126Ah
1Hour Rate (2.472A to 9.6V)	2.472Ah

Attain Certificate

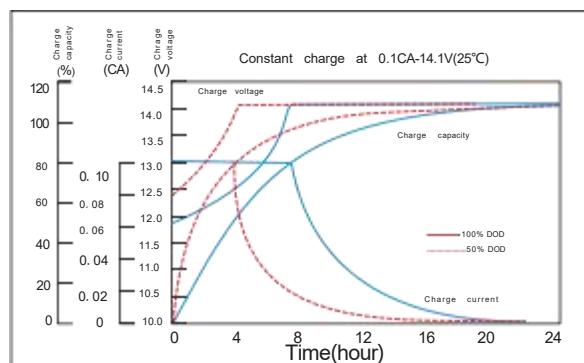


Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

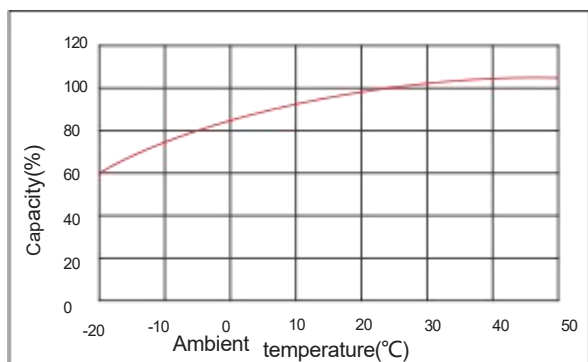
Discharge characteristic



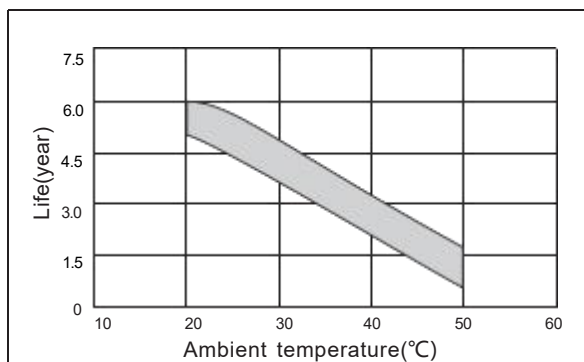
Charging characteristic



The effect of temperature on capacity



The effect of temperature on float life



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	14.83	10.32	7.523	4.443	3.150	2.472	1.770	1.482	1.117	0.882	0.741	0.634	0.480	0.393	0.207
1.65V	14.01	9.723	7.116	4.221	3.002	2.357	1.709	1.435	1.082	0.858	0.722	0.621	0.474	0.388	0.204
1.70V	12.77	9.021	6.665	4.077	2.900	2.273	1.654	1.387	1.042	0.834	0.703	0.600	0.467	0.382	0.202
1.75V	11.55	8.440	6.427	3.896	2.761	2.189	1.585	1.339	1.021	0.813	0.685	0.582	0.460	0.378	0.200
1.80V	10.14	7.648	5.935	3.724	2.658	2.106	1.540	1.302	0.990	0.790	0.667	0.562	0.453	0.374	0.197
1.85V	8.052	6.214	4.925	3.207	2.319	1.889	1.423	1.183	0.915	0.734	0.622	0.534	0.425	0.351	0.186

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	24.83	17.02	13.01	8.069	5.957	4.651	3.381	2.809	2.113	1.693	1.428	1.228	0.937	0.773	0.408
1.65V	23.49	16.49	12.62	7.828	5.661	4.528	3.330	2.732	2.064	1.653	1.396	1.187	0.928	0.764	0.402
1.70V	21.89	15.70	12.00	7.557	5.421	4.322	3.220	2.657	2.008	1.614	1.364	1.157	0.916	0.754	0.398
1.75V	20.25	15.09	11.74	7.297	5.317	4.229	3.100	2.576	1.976	1.579	1.335	1.131	0.905	0.745	0.395
1.80V	18.16	13.90	10.99	7.045	5.135	4.052	3.023	2.517	1.922	1.539	1.305	1.107	0.892	0.734	0.390
1.85V	14.72	11.56	9.253	6.128	4.560	3.685	2.783	2.300	1.785	1.436	1.221	1.055	0.839	0.694	0.368