



JS Series lead-acid battery JS12-18

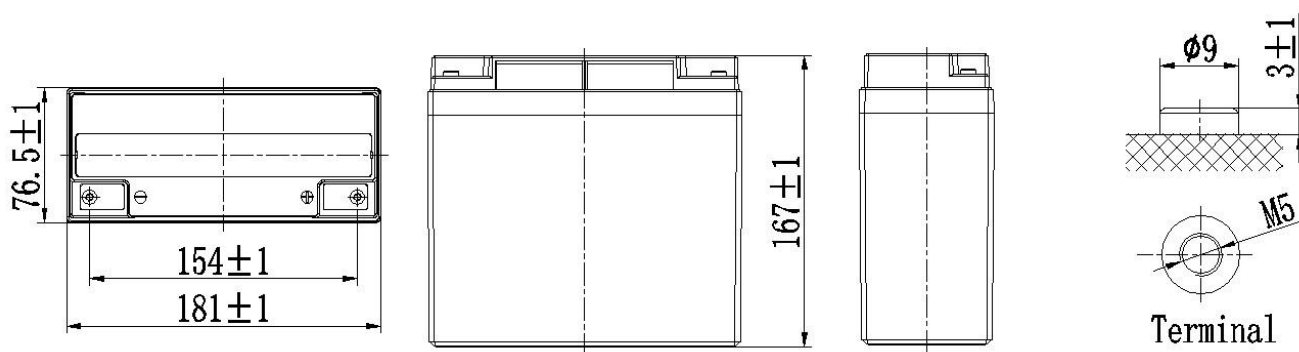
General Features

- ▶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:181(L)×76(W) ×167(H)×167(TH)/(±2.0)

Unit: mm



Specification	
Nominal Voltage	12V
Nominal Capacity	18.0Ah@20hour-rate to 1.75V per cell @25°C
Design life	5 years
Terminal	M5
Approx. Weight	Approx5.30kg±3% (11.68lbs±3%)
Container Material	ABS(UL94-HB, UL94-V0 Optional)
short-circuit current	645A
Internal resistance(Full charged at 25°C:)	18.6 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. 5.0A;Recom.2.0A
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 (0.9A to 10.5V)	18.0Ah
3Hour Rate (5.211A to 10.2V)	15.633Ah
1Hour Rate (12.24A to 9.6V)	12.24Ah

Attain Certificate

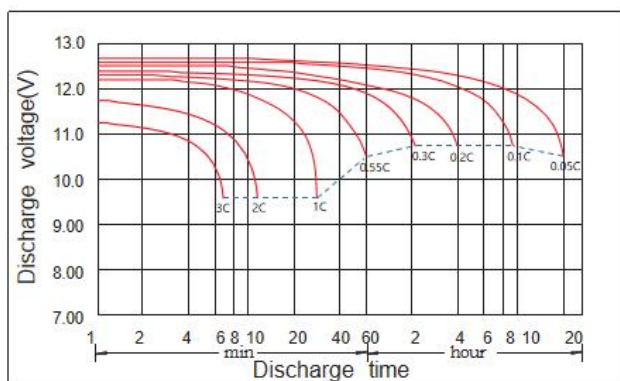


Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

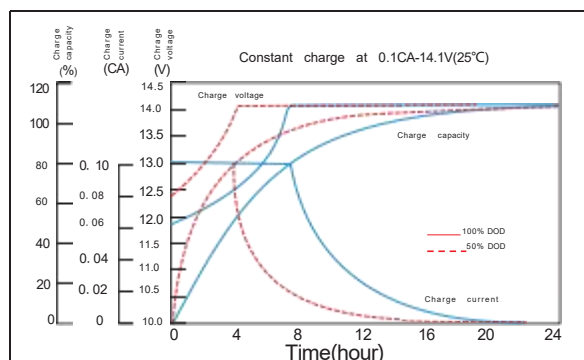


JS Series lead-acid battery JS12-18

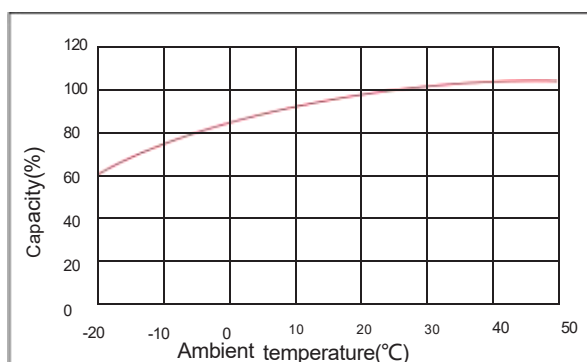
Discharge characteristic



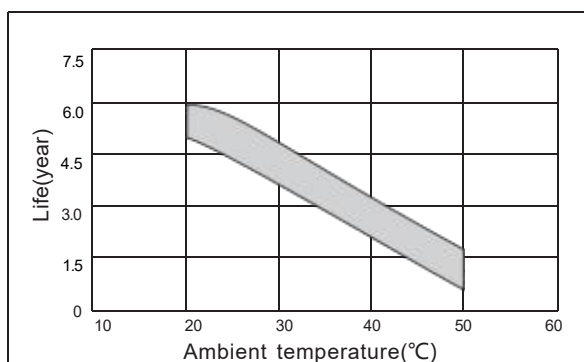
Charging characteristic



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	66.74	47.71	35.74	21.55	15.43	12.24	8.849	7.410	5.583	4.408	3.704	3.170	2.398	1.965	1.037
1.65V	63.03	44.97	33.80	20.47	14.71	11.67	8.546	7.173	5.411	4.289	3.608	3.103	2.371	1.941	1.020
1.70V	57.45	41.72	31.66	19.77	14.21	11.25	8.268	6.937	5.211	4.172	3.514	3.002	2.334	1.912	1.009
1.75V	51.99	39.03	30.53	18.90	13.53	10.84	7.926	6.694	5.107	4.065	3.425	2.912	2.302	1.891	0.900
1.80V	45.65	35.37	28.19	18.06	13.02	10.42	7.700	6.509	4.949	3.949	3.337	2.809	2.263	1.868	0.886
1.85V	36.23	28.74	23.39	15.56	11.36	9.349	7.115	5.914	4.575	3.670	3.112	2.671	2.124	1.754	0.828

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	111.72	78.73	61.81	39.13	29.19	23.02	16.91	14.04	10.56	8.463	7.139	6.140	4.683	3.863	2.041
1.65V	105.69	76.28	59.97	37.97	27.74	22.41	16.65	13.66	10.32	8.264	6.980	5.933	4.640	3.821	2.012
1.70V	98.53	72.64	57.00	36.65	26.56	21.39	16.10	13.28	10.04	8.070	6.822	5.784	4.579	3.769	1.991
1.75V	91.14	69.78	55.77	35.39	26.05	20.93	15.50	12.88	9.880	7.893	6.674	5.656	4.524	3.724	1.977
1.80V	81.74	64.27	52.22	34.17	25.16	20.06	15.11	12.58	9.612	7.694	6.524	5.534	4.458	3.670	1.951
1.85V	66.24	53.46	43.95	29.72	22.34	18.24	13.91	11.50	8.925	7.179	6.104	5.277	4.195	3.470	1.839