



JS Series lead-acid battery JS12-28(W)

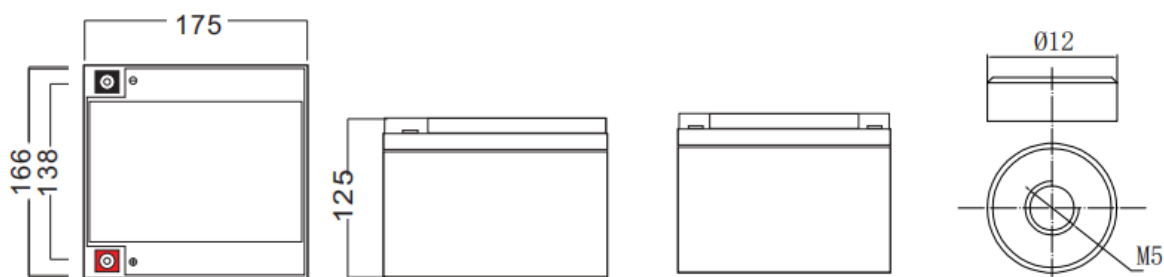
General Features

- ▶ 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: 175(L) × 166(W) × 125(H) × 125(TH) / (±2.0)

Unit: mm



Terminal Dimensions

Specification	
Nominal Voltage	12V
Nominal Capacity	28.0Ah@20hour-rate to 1.75V per cell @25°C
Design life	5 years
Terminal	M5
Approx. Weight	Approx 8.0kg ± 3% (17.6lbs ± 3%)
Container Material	ABS(UL94-HB, UL94-V0 Optional)
short-circuit current	1000A
Internal resistance(Full charged at 25°C:)	12.0 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. 7.00A; Recom. 2.80A
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 (1.40A to 10.5V)	28.0Ah
3Hour Rate (7.295A to 10.2V)	21.885Ah
1Hour Rate (16.96A to 9.6V)	16.96Ah

Attain Certificate



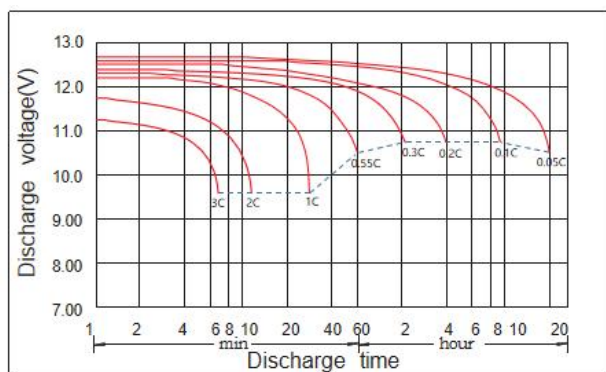
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.



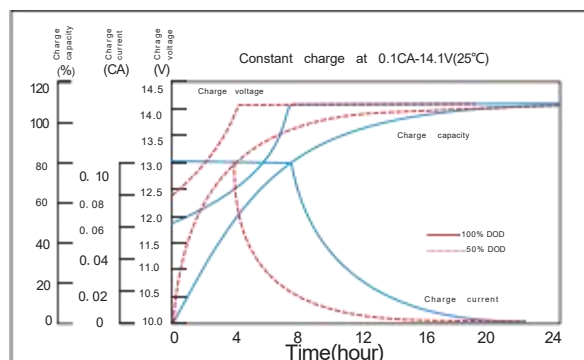
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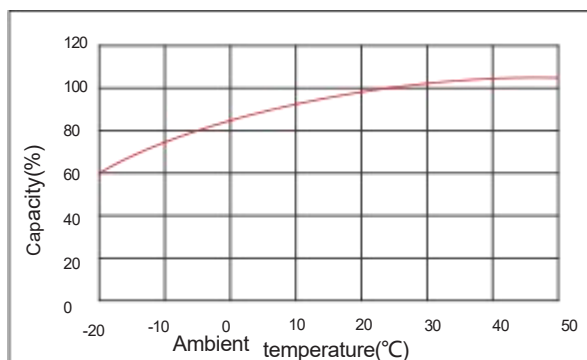
Discharge characteristic



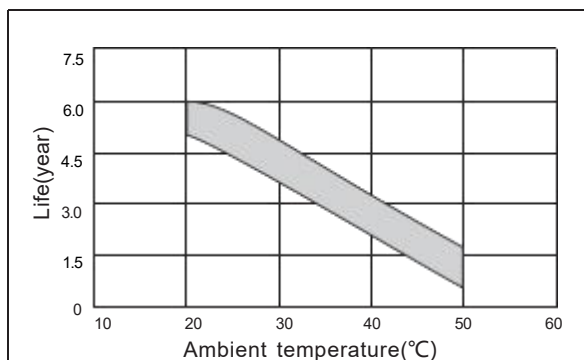
Charging characteristic



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	95.67	67.24	50.06	29.87	21.61	16.96	12.39	10.37	7.816	6.171	5.185	4.438	3.357	2.751	1.451
1.65V	90.35	63.38	47.35	28.38	20.60	16.17	11.96	10.04	7.575	6.004	5.051	4.345	3.320	2.718	1.428
1.70V	82.35	58.80	44.35	27.41	19.89	15.59	11.58	9.711	7.295	5.841	4.919	4.202	3.268	2.677	1.412
1.75V	74.53	55.02	42.77	26.19	18.94	15.02	11.10	9.372	7.149	5.691	4.796	4.076	3.223	2.647	1.400
1.80V	65.44	49.85	39.49	25.04	18.23	14.45	10.78	9.112	6.928	5.528	4.672	3.932	3.168	2.616	1.380
1.85V	51.94	40.51	32.77	21.56	15.91	12.96	9.961	8.280	6.405	5.138	4.357	3.740	2.974	2.455	1.299

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	160.1	111.0	86.59	54.25	40.87	31.91	23.67	19.66	14.79	11.85	9.995	8.596	6.556	5.408	2.858
1.65V	151.5	107.5	84.01	52.63	38.84	31.06	23.31	19.13	14.44	11.57	9.772	8.306	6.496	5.350	2.817
1.70V	141.2	102.4	79.86	50.81	37.19	29.65	22.54	18.60	14.05	11.30	9.551	8.097	6.411	5.276	2.788
1.75V	130.7	98.34	78.13	49.06	36.48	29.01	21.70	18.03	13.83	11.05	9.343	7.918	6.334	5.213	2.768
1.80V	117.2	90.58	73.16	47.36	35.23	27.80	21.16	17.62	13.46	10.77	9.134	7.748	6.241	5.137	2.731
1.85V	94.96	75.34	61.57	41.20	31.28	25.28	19.48	16.10	12.50	10.05	8.546	7.388	5.872	4.858	2.574