

JL2-400



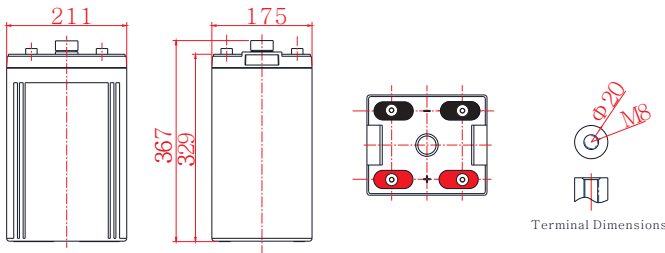
JL series lead-acid battery

General Features

- > High corrosion resistant performance: Pb-Ca multi-alloy grid
- > Long life
- > Excellent charge acceptance ability
- > Excellent deep cycle discharge capability
- > Strong high and low temperature performance
- > Precision sealing technology



Dimension: 211(L)×175(W)×329(H)×367(TH) Unit: mm



Applications

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

Specification

Nominal Voltage	2V		
Nominal Capacity	400Ah		
Design life	12 years		
Terminal	M8		
Approx. Weight	Approx 25.5kg (56.3lbs)		
Container Material	ABS		
Rated Capacity	400Ah	10Hour Rate	(40.0A to 1.80V)
	306Ah	3Hour Rate	(102A to 1.80V)
	230Ah	1Hour Rate	(230A to 1.75V)
Internal resistance	Full charged at 25°C: 0.42 mΩ		
Max. Discharge Current	4000A(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. 80A ; Recom.40.0A		
Charge Method (25 °C)	Float Charge:2.23-2.27V,recom.2.25V(-3mV/ °C)		
	Equalize charge:2.30-2.35V,recom.2.35V(-4mV/ °C)		
	Cycle charge:2.40-2.50V,recom.2.40V(-5mV/ °C)		
Self discharge	3% of capacity declined per month at 25°C		

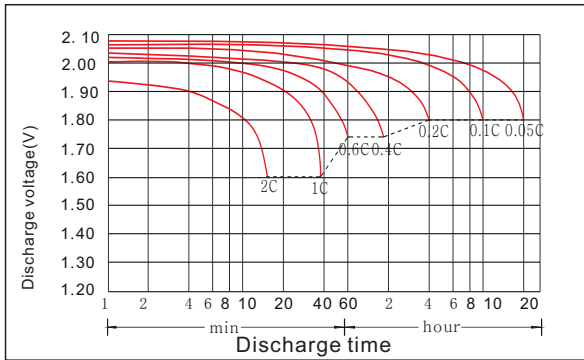
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	575	426	267	157	115	77.6	52.7	43.3	23.2
1.65V	536	400	253	153	112	75.7	51.9	42.9	23.0
1.70V	503	375	242	148	109	75.0	51.1	42.3	22.6
1.75V	476	349	230	143	106	72.9	50.5	41.7	22.3
1.80V	449	326	216	135	103	71.2	49.5	40.0	21.4
1.85V	398	291	196	126	97.3	68.8	48.1	39.6	21.2

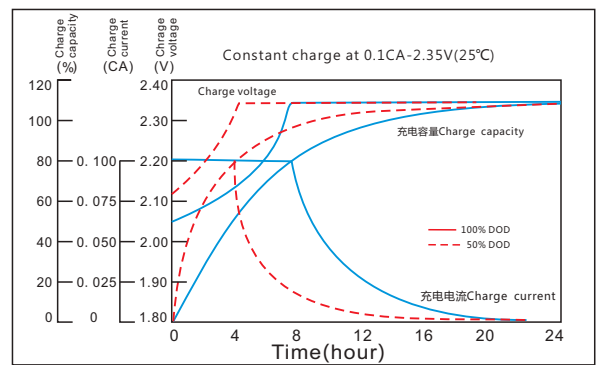
Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)

FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	978	778	549	330	242	164	111	91.6	49.0
1.65V	938	748	508	319	233	159	109	89.6	47.9
1.70V	905	718	483	308	225	156	107	86.9	46.5
1.75V	871	693	465	296	216	152	103	85.6	45.8
1.80V	830	669	437	283	209	147	100	84.3	45.1
1.85V	756	595	404	258	198	141	97.0	81.0	43.3

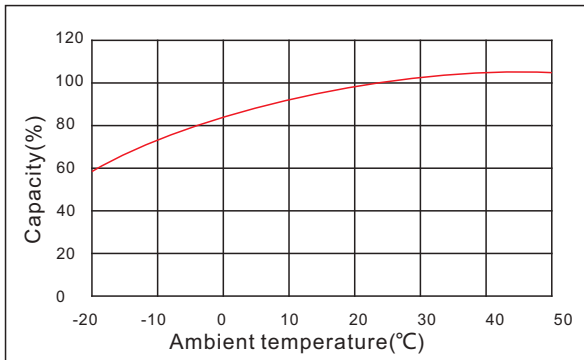
Discharge characteristic



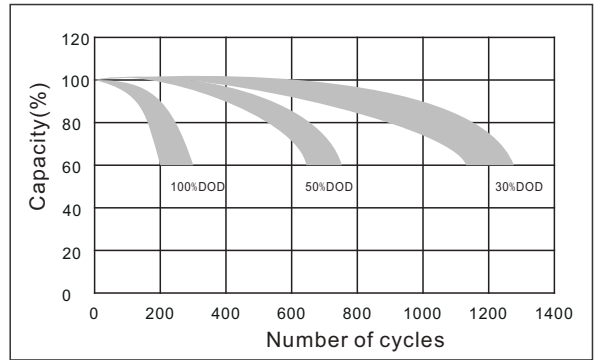
Charging characteristic



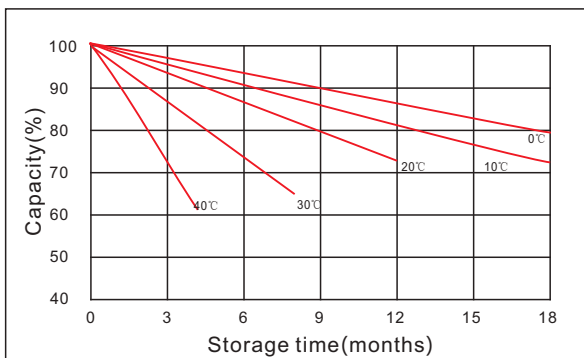
The effect of temperature on capacity



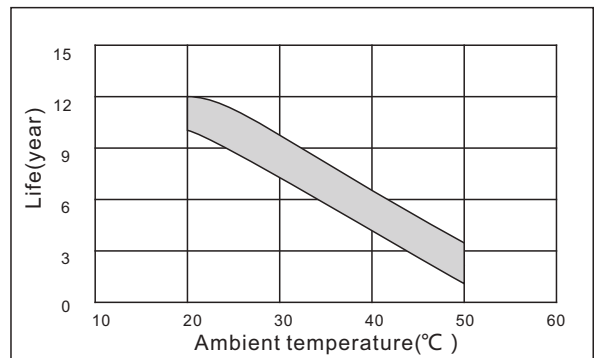
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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