

# JS12-22

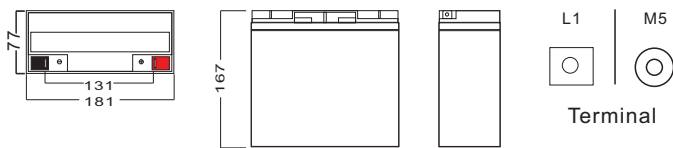


## General Features

- > 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)×77(W)×167(H)×167(TH) Unit: mm



## JS Series lead-acid battery

### Applications

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

### Specification

Nominal Voltage	12V
Nominal Capacity	22.0Ah
Design life	5 years
Terminal	L1/M5
Approx. Weight	Approx5.80kg (12.8lbs)
Container Material	ABS
Rated Capacity	22.0Ah → 20Hour Rate (1.10A to 10.5V)
	17.1Ah → 3Hour Rate (5.70A to 10.5V)
	14.5Ah → 1Hour Rate (14.5A to 9.60V)
Internal resistance	Full charged at 25°C: 17.0 mΩ
Max. Discharge Current	330A(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.5.50A ; Recom.2.20A
Charge Method (25 °C)	Float Charge:13.5-13.8V,recom.13.5V(-18mV/ °C)
	Equalize charge:13.8-14.1V,recom.14.1V(-24mV/ °C)
	Cycle charge:14.4-15.0V,recom.14.4V(-30mV/ °C)
Self discharge	3% of capacity declined per month at 25°C

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

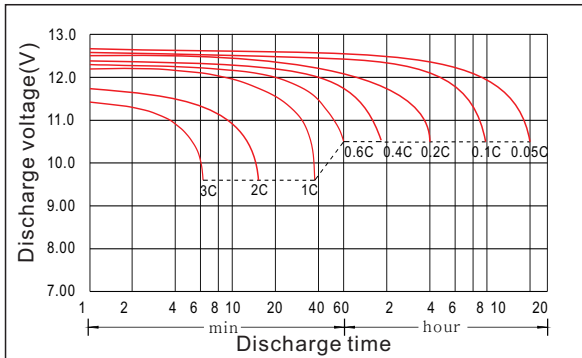
FV/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	87.1	57.0	42.5	27.8	14.5	8.32	6.07	4.86	4.14	2.73	2.18	1.17
1.65V	86.5	54.6	38.9	26.4	13.6	7.99	5.90	4.71	4.05	2.68	2.16	1.14
1.70V	70.8	51.3	36.3	25.6	13.2	7.83	5.79	4.47	4.00	2.64	2.11	1.12
1.75V	65.8	48.8	33.9	25.0	12.7	7.63	5.70	4.40	3.83	2.57	2.07	1.10
1.80V	60.5	46.0	31.5	24.2	12.3	7.44	5.39	4.31	3.67	2.51	2.02	1.06

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

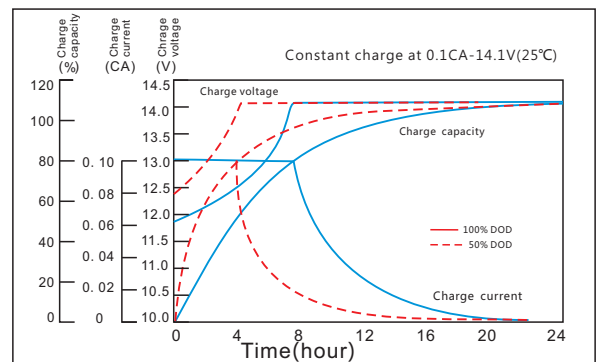
FV/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	164	103	77.7	47.0	26.6	15.6	11.5	9.20	7.81	5.15	4.22	2.31
1.65V	151	97.2	73.0	46.7	25.0	15.0	11.1	8.91	7.66	5.07	4.14	2.25
1.70V	138	94.2	69.7	46.5	24.3	14.7	11.0	8.47	7.44	5.02	4.11	2.23
1.75V	125	91.3	67.1	46.1	23.6	14.4	10.8	8.36	7.30	4.81	4.01	2.18
1.80V	112	88.4	64.2	45.7	23.2	14.3	10.5	8.29	7.11	4.65	3.93	2.17

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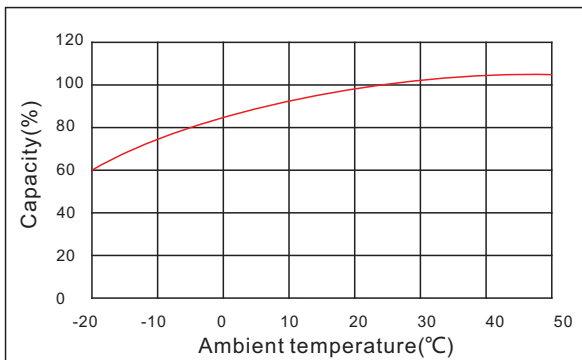
Discharge characteristic



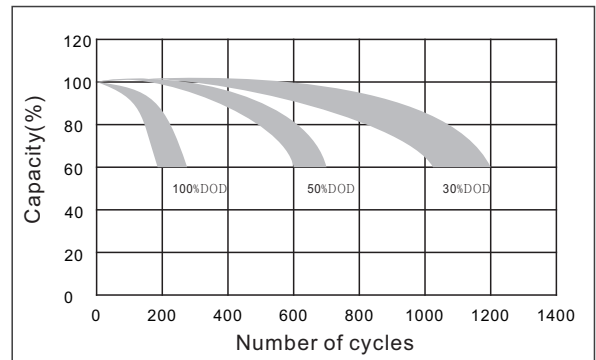
Charging characteristic



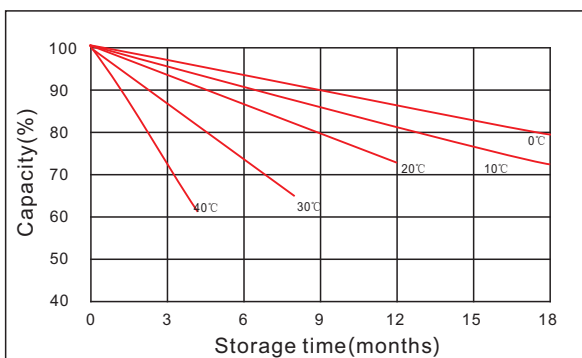
The effect of temperature on capacity



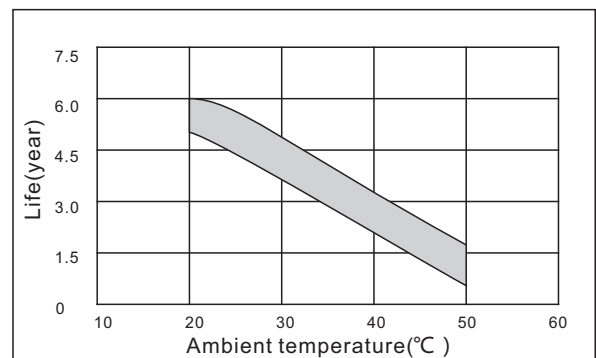
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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