

# KIJO

## JS12-18



## 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

### General Features

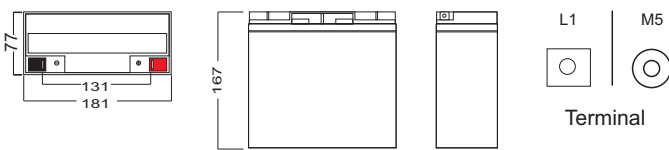
- > High corrosion resistant performance: Pb-Ca multi-alloy grid
- > High energy density and power density
- > Optimized capability of instant high-current discharging
- > Excellent charge acceptance ability
- > Excellent deep cycle discharge capability
- > Strong high and low temperature performance
- > Precision sealing technology

### Specification

Nominal Voltage	12V
Nominal Capacity	18.0Ah
Design life	5 years
Terminal	L1/M5
Approx. Weight	Approx 5.10kg (11.2lbs)
Container Material	ABS
Rated Capacity	18.0Ah → 20Hour Rate (0.90A to 10.5V)
	14.0Ah → 3Hour Rate (4.66A to 10.5V)
	11.9Ah → 1Hour Rate (11.9A to 9.60V)
Internal resistance	Full charged at 25°C: 18.0 mΩ
Max. Discharge Current	270A(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.4.50A ; Recom.1.80A
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



Dimension: 181(L)×77(W) ×167(H) ×167(TH) Unit: mm



### 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	71.3	46.6	34.7	22.8	11.9	6.80	4.97	3.98	3.38	2.23	1.78	0.954
1.65V	70.7	44.6	31.9	21.6	11.2	6.53	4.82	3.85	3.31	2.20	1.76	0.936
1.70V	58.0	41.9	29.7	21.0	10.8	6.41	4.73	3.65	3.28	2.16	1.73	0.918
1.75V	53.8	40.0	27.7	20.5	10.4	6.25	4.66	3.60	3.13	2.11	1.69	0.900
1.80V	49.5	37.6	25.7	19.8	10.1	6.08	4.41	3.53	3.01	2.05	1.66	0.864

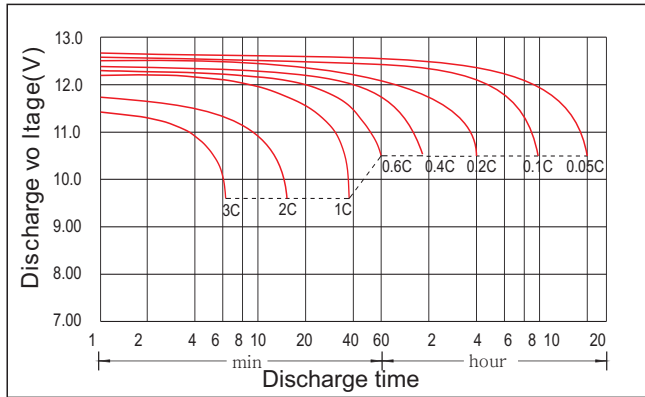
### Constant Power Discharge Characteristics Unit: W/cell(25°C, 77°F)

FV/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	134	84.0	63.6	38.5	21.8	12.8	9.39	7.53	6.39	4.21	3.45	1.89
1.65V	123	79.5	59.7	38.2	20.5	12.3	9.12	7.29	6.27	4.15	3.39	1.84
1.70V	113	77.1	57.0	38.1	19.9	12.0	8.97	6.93	6.09	4.11	3.36	1.82
1.75V	102	74.7	54.9	37.7	19.3	11.8	8.85	6.84	5.97	3.94	3.28	1.79
1.80V	91.8	72.3	52.5	37.4	19.0	11.7	8.61	6.78	5.82	3.81	3.22	1.77

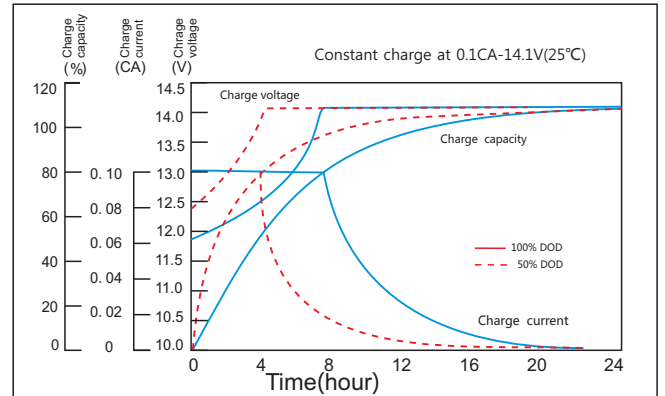
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

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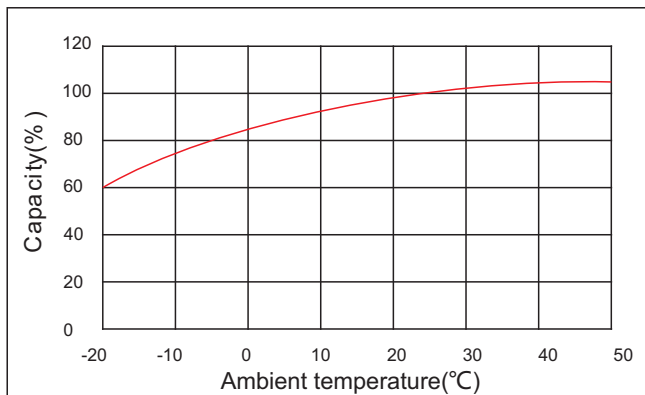
### Discharge characteristic



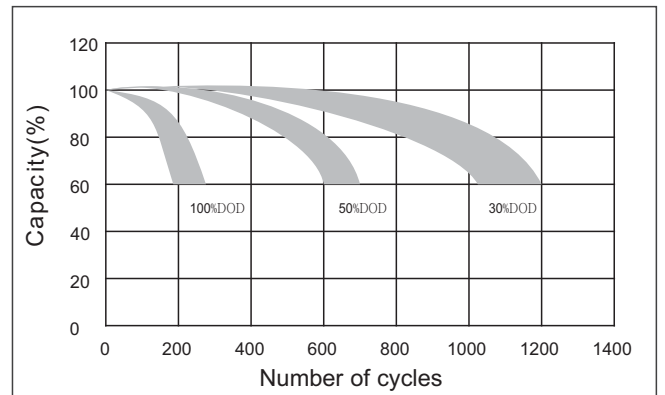
### Charging characteristic



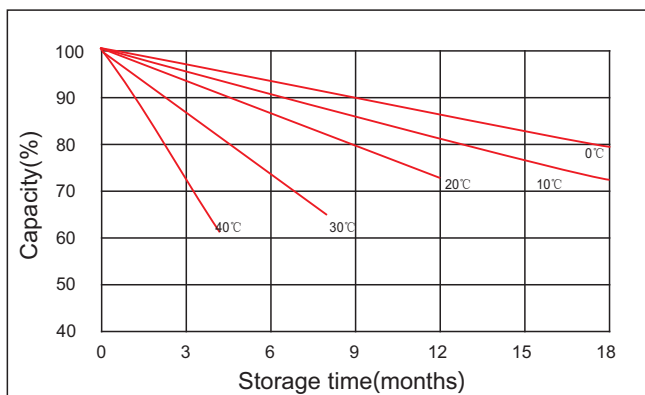
### The effect of temperature on capacity



### The effect of discharge depth on cycle life



### Curves of self-discharge



### The effect of temperature on float life

