

KJPC12-100C (12V100Ah)

TECHNICAL SPECIFICATIONS

Nominal voltage	12V	
Nominal capacity	100Ah	
Design life	15 years	
Terminal	M8	
Approx weight	31.0kg	
Container material	ABS	
Dimensions (mm)	Length	330
	Width	171
	Height	216
	Total height	219
Capacity	100.0Ah	10hr (10.0A - 10.8V)
	81.3Ah	3hr (27.1A - 10.8V)
	66.1Ah	1hr (66.1A - 10.5V)
Internal resistance	Full charged at 25°C: 5.00 mΩ	
Max. discharge current	1200A (5S)	
Operating temp. range	Discharge: -20 ~60°C	
	Charge: -20 ~50°C	
	Storage: -20 ~50°C	
Charge method (25°C)	Charge current	Max. 30.0A; Recom. 10.0 ~ 20.0A
	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)
Self discharge	3% of capacity declined per month at 25°C	



GENERAL FEATURES

- Lead-carbon composite negative plate, both capacitance and battery characteristics
- Long cycle life, excellent deep cycle discharge ability
- Excellent charge acceptance ability
- Optimized capability of instant high-current discharging
- Strong high and low temperature performance
- Precision sealing technology

APPLICATIONS

- Solar/ wind energy and other new energy storage
- Hybrid vehicles, electric bicycles and other new energy vehicles
- Other backup or cycle purposes



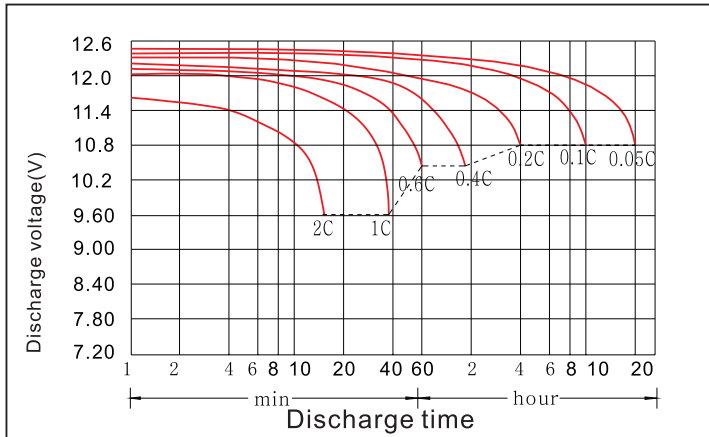
CONSTANT CURRENT DISCHARGE (Amperes) at 25°C

F.V/Time	5min	15min	30min	1hr	2hr	3hr	5hr	8hr	10hr	20hr
1.85V	246	147	98.2	59.7	35.3	25.5	17.0	11.6	9.80	5.31
1.80V	276	165	108	64.4	37.2	27.1	17.9	12.1	10.0	5.40
1.75V	308	177	112	66.1	37.9	27.3	18.4	12.2	10.2	5.43
1.70V	335	183	113	67.1	38.5	27.6	18.6	12.3	10.3	5.45
1.65V	348	187	115	67.6	38.8	28.0	18.8	12.4	10.4	5.48
1.60V	359	193	117	68.0	39.0	28.3	19.0	12.5	10.5	5.51

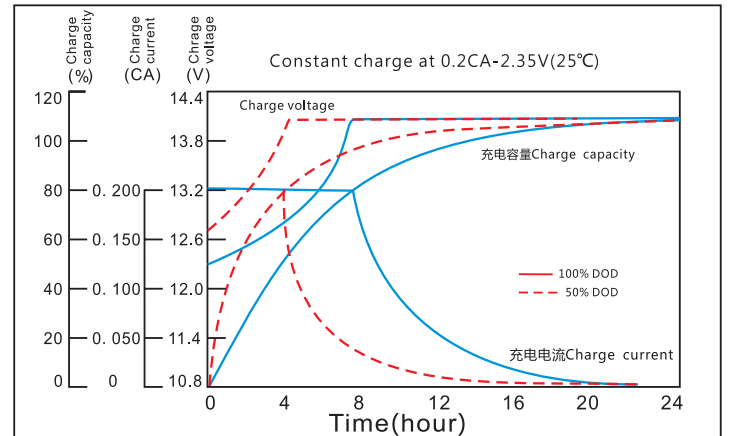
CONSTANT POWER DISCHARGE (Watts/cell) at 25°C

F.V/Time	5min	15min	30min	1hr	2hr	3hr	5hr	8hr	10hr	20hr
1.85V	441	277	188	116	69.4	49.8	33.4	22.8	19.1	10.6
1.80V	494	310	205	125	72.7	52.4	34.9	23.5	19.4	10.7
1.75V	538	328	210	126	72.8	52.6	35.3	23.7	19.6	10.8
1.70V	577	330	211	127	73.2	52.9	35.5	23.9	19.8	10.8
1.65V	580	334	211	128	73.5	53.2	35.8	24.0	20.0	10.9
1.60V	603	340	213	129	73.7	53.8	36.0	24.2	20.2	10.9

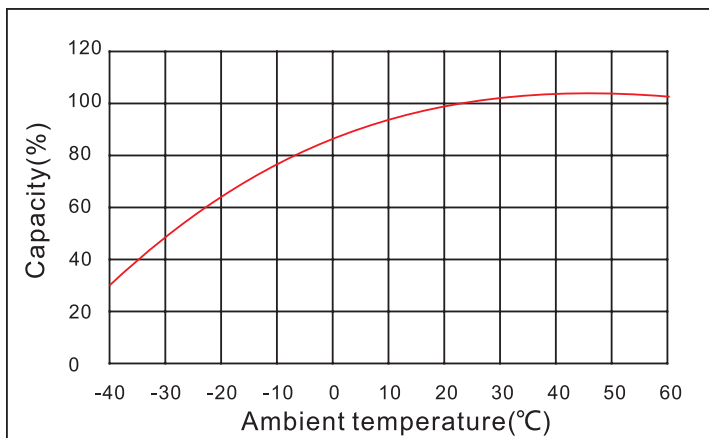
Discharge characteristic



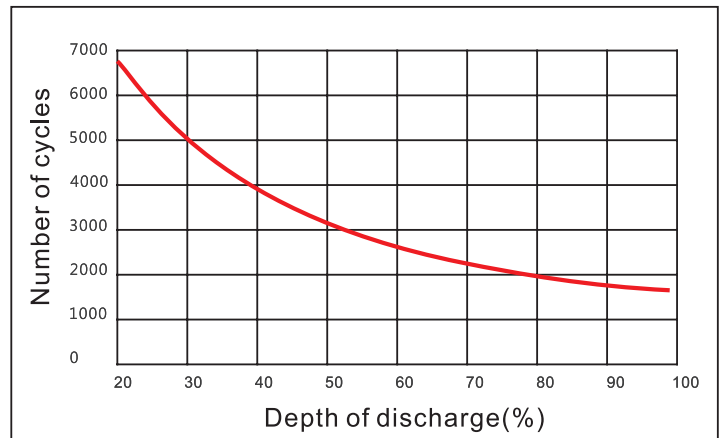
Charging characteristic



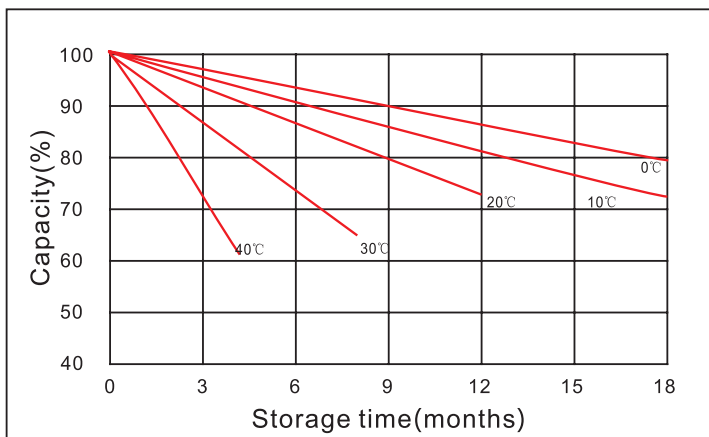
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



The effect of discharge depth on cycle life

