VRLA Rechargeable Battery

AJC-SLI-31M

YOUR BEST POWER SOURCE SOLUTIONS

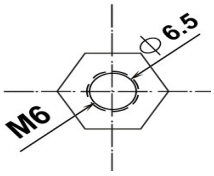
FEATURES

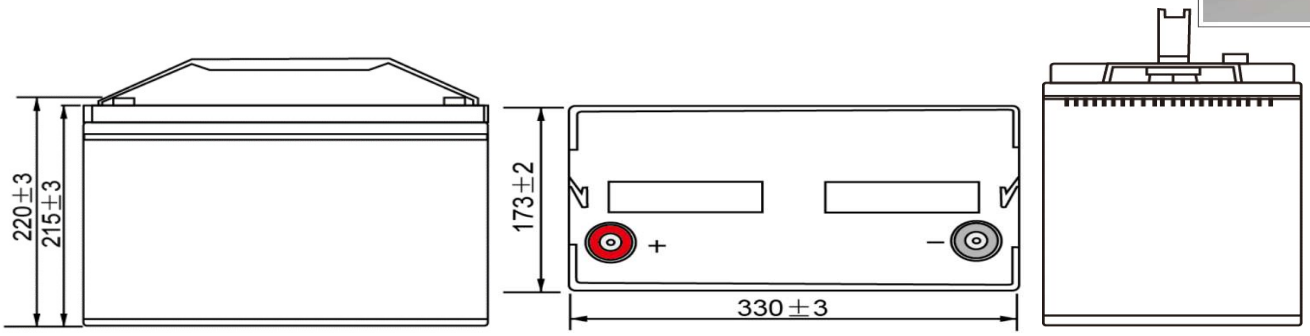
AJC-SLI-31M is specially designed for high rate discharge applications requiring long service life. The patented hydro-form in case formation assures the customer of tighter battery performance tolerances for series applications, longer shelf life due to very low self-discharge rates and industry leading performance in a small foot print. Special grid alloys extend battery life in higher temperature environments and improve battery performance through improved conductance. AJC SLI series batteries are designed to provide 30% more power output than the standard seriesand up to 15 years in standby service applications.

SPECIFICATION

Cell per unit	6	**Ambient temperature**	
Nominal Voltage (V)	12	Charge	0℃(32℉) to 40℃ (104℉)
Nominal Capacity (Ah)	390W @ 15 mins rate F.V(1.67Cell)	Discharge	-15℃(5℉) to 50℃ (122℉)
Weight	Approx 30.10kg	Storage	-15℃(5℉) to 40℃ (104℉)
Internal Resistance (1KHz)	5mΩ	**Max charge Current**	
Max Discharge Current (5s)	1200A (5s)	**Cycle use :**	Max charge current：33A
Battery Life :	15 years(standby)		Charge voltage: 14.4V to 15.0V
Terminal Type	IT(F8) with adaptor 580	**Stand by :**	Charge voltage: 13.5V to 13.8V
Container Material	ABS(Option：94-HB & 94V-0 flame retardant case)		

DIMENTIONS	Length	Width	Height	Total Height
Unit: mm	330±3	173±2	215±3	220±3
Unit: inch	12.99±0.12	6.81±0.08	8.54±0.12	8.74±0.12

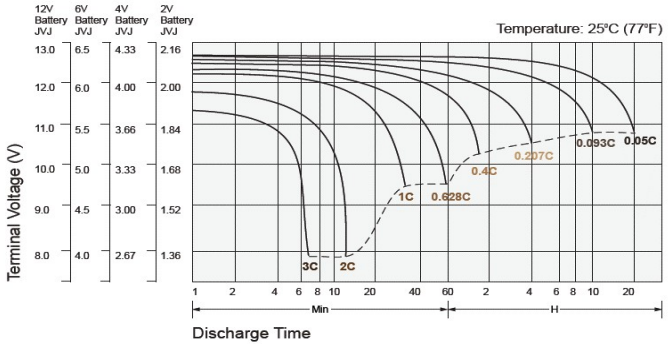




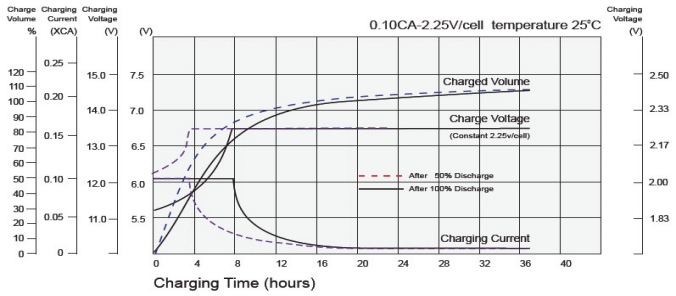
Constant current discharge characteristics Unit:A(25℃77℉)										
F.V/Time	**5MIN**	**10min**	**15MIN**	**30MIN**	**60MIN**	**3HR**	**5HR**	**8HR**	**10HR**	**20HR**
1.60V	385.0	265.0	203.0	115.8	64.9	27.20	18.10	12.70	10.50	5.45
1.67V	358.0	243.0	189.0	103.0	61.5	26.10	17.80	12.60	10.30	5.40
1.70V	348.0	235.0	184.0	101.0	60.6	25.70	17.60	12.40	10.20	5.34
1.75V	317.0	217.0	170.0	92.1	56.5	24.80	17.20	12.20	10.10	5.29
1.80V	279.0	196.0	151.0	83.7	50.8	23.70	16.70	12.00	10.00	5.20

Constant power discharge characteristics Unit:W/CELL(25℃77℉)										
F.V/Time	**5MIN**	**10min**	**15MIN**	**30MIN**	**60MIN**	**3HR**	**5HR**	**8HR**	**10HR**	**20HR**
1.60V	4650	3276.0	2480.0	1449.0	848.0	328.1	242.9	155.0	124.03	65.25
1.67V	4220	3050.0	2345.0	1433.9	810.0	326.3	243.0	153.0	124.03	65.25
1.70V	4000	2940.0	2333.0	1414.4	794.0	324.0	240.0	151.0	123.77	65.12
1.75V	3620	2770.0	2343.0	1382.9	766.0	321.1	235.0	150.0	123.12	64.80
1.80V	2848	2600.0	2050.0	1331.8	750.0	314.7	225.0	148.0	121.24	63.50

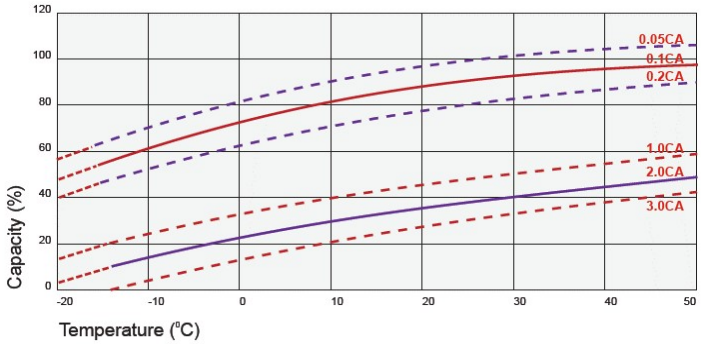
Battery Discharge Characteristics (25℃/77℉)



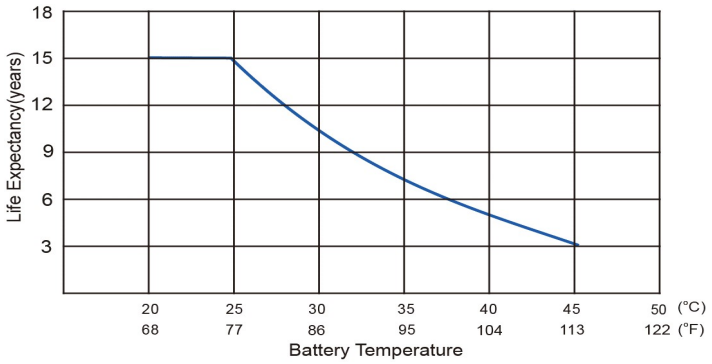
Battery Charge Characteristic for standby use



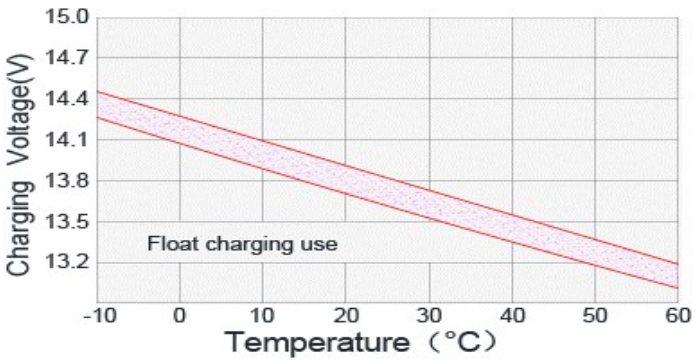
Temperature Effects in Battery Capacity



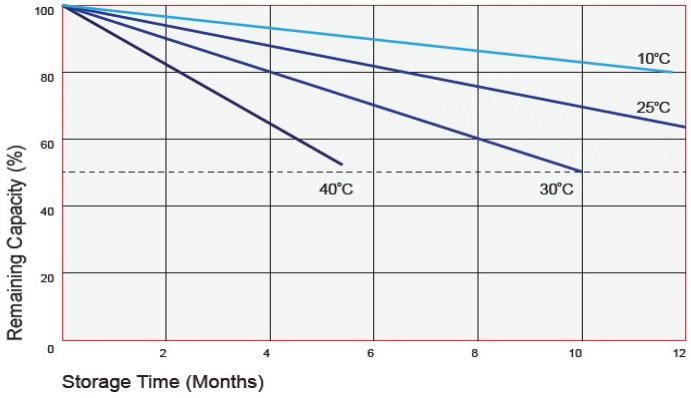
Temperature effect on Design Service life



Temperature effect on Charging Voltage



Self Discharge Characteristics



Charging Procedures

Application	Charge Voltage(V/cell)			Max. Charge Current
	Temperature	Set Point	Allowable Range	
Cycle Use	25℃(77℉)	2.45	2.40~2.50	0.25C
Standby	25℃(77℉)	2.275	2.25~2.30	

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/cell	1.75	1.70	1.65	1.60
Discharge Current (A)	0.2C>(A)	0.2C<(A)<0.5C	0.5C<(A)<1.0C	(A)>1.0C