



# VRLA Rechargeable Battery

## AJC-SLI-24M

**YOUR BEST POWER SOURCE SOLUTIONS**

### FEATURES

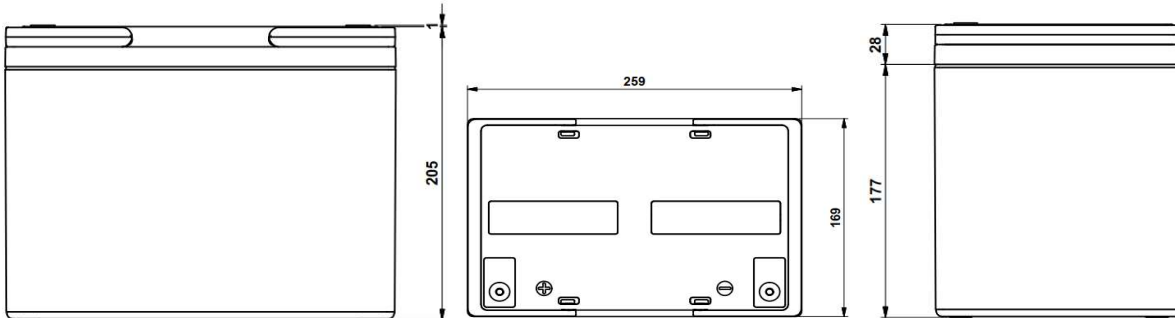
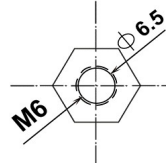
AJC-SLI-24M is specially designed for high rate discharge applications requiring long service life. The patented hydro-form in case formation assures the customer of tighter battery performance tolerances for series applications, longer shelf life due to very low self-discharge rates and industry leading 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 series and up to 15 years in standby service applications.



### SPECIFICATION

<b>Cell per unit</b>	6	<b>Ambient temperature</b>
<b>Nominal Voltage (V)</b>	12	Charge 0°C (32°F) to 40°C (104°F)
<b>Nominal Capacity (Ah)</b>	300W @ 15 mins rate F.V(1.67Cell)	Discharge -15°C (5°F) to 50°C (122°F)
<b>Weight</b>	Approx 24kg	Storage -15°C (5°F) to 40°C (104°F)
<b>Internal Resistance (1KHz)</b>	≤5.5mΩ	<b>Max charge Current</b>
<b>Max Discharge Current (5s)</b>	1200A (5s)	<b>Cycle use :</b> Max charge current : 27A
<b>Battery Life :</b>	15 years(standby)	Charge voltage: 14.4V to 15.0V
<b>Terminal Type</b>	IT(F8) with 580 adaptor	<b>Stand by :</b> Charge voltage: 13.5V to 13.8V
<b>Container Material</b>	ABS(Option : 94-HB & 94V-0 flame retardant case)	

DIMENSIONS	Length	Width	Height	Total Height
Unit: mm	259±1	169±1	205±1	214±1
Unit: inch	10.20±0.04	6.65±0.04	8.19±0.04	9.06±0.04

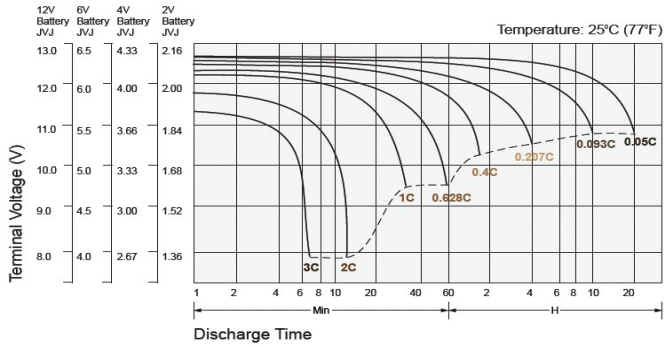


### Constant current discharge characteristics Unit:A(25°C/77°F)

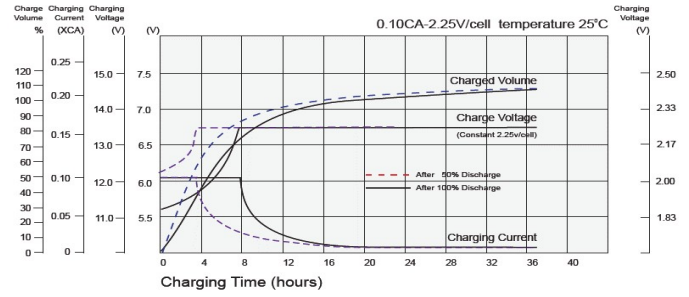
F.V/Time	5MIN	10MIN	15MIN	30MIN	45MIN	60MIN	90MIN	120MIN	180MIN	600MIN
1.60V	287.4	214.7	168.7	102.7	76.3	58.9	44.3	33.8	25.8	8.65
1.67V	272.8	205.3	161.1	98.2	73.0	56.2	42.4	32.4	24.6	8.48
1.70V	259.3	196.4	153.8	93.9	69.6	53.8	40.6	31.0	23.6	8.32
1.75V	248.3	187.4	147.5	90.0	66.8	51.5	38.9	29.7	22.6	8.16
1.80V	231.7	175.8	138.2	83.9	63.1	48.4	36.5	27.8	21.2	8.00

F.V/Time	5MIN	10MIN	15MIN	30MIN	45MIN	60MIN	90MIN	120MIN	180MIN	600MIN
1.60V	515.3	391.9	310.7	195.6	146.6	114.3	86.7	66.4	51.0	17.60
1.67V	497.7	378.2	300.0	188.9	141.8	110.4	83.7	64.2	49.4	17.40
1.70V	481.4	365.5	289.3	182.5	136.7	106.7	80.8	62.0	47.7	17.20
1.75V	466.8	352.9	280.7	176.8	132.5	103.4	78.3	60.1	46.2	17.00
1.80V	440.2	334.5	265.5	166.5	126.3	97.9	73.9	56.7	43.7	16.80

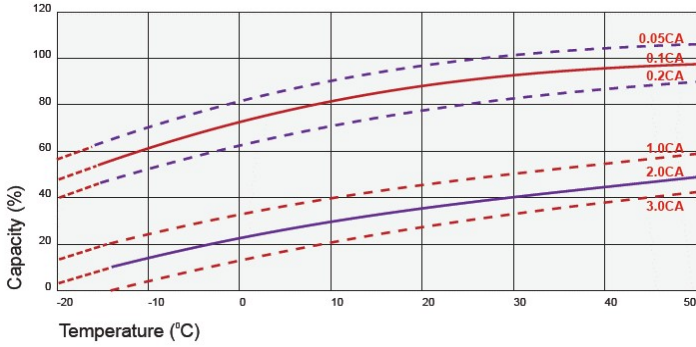
## Battery Discharge Characteristics (25°C/77°F)



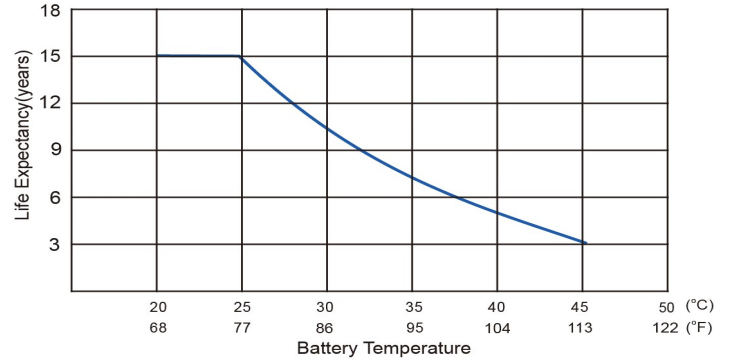
## Battery Charge Characteristic for standby use



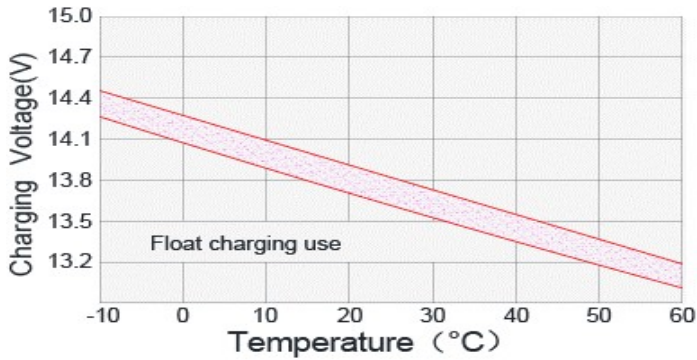
## Temperature Effects in Battery Capacity



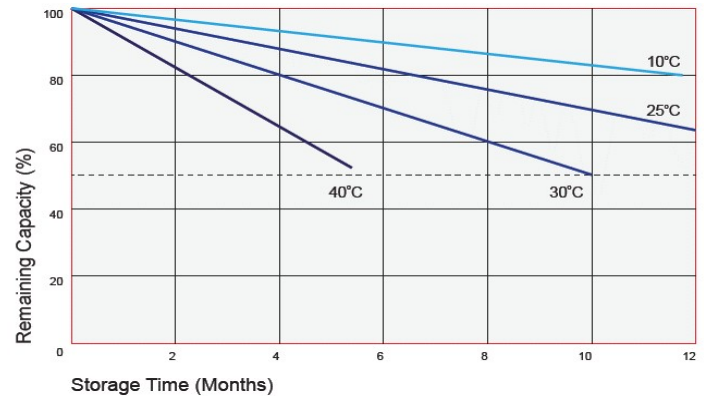
## Temperature effect on Design Service life



## 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°C(77°F)	2.45	2.40~2.50	0.25C
Standby	25°C(77°F)	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 < (A)	(A) > 1.0C