

# JS12-2.3

## JS Series lead-acid battery



### Applications

- › UPS
- › Emergency lighting
- › Fire alarm and security systems
- › Telecommunication system
- › Backup power for testing and measuring instruments
- › Alarm and security system
- › Electronic apparatus and equipment
- › Communication power supply
- › DC power supply
- › Auto control system

### General Features

- › Maintenance-free operation
- › Stable quality and high reliability
- › Compact design
- › 5 years design time (at 25°C)

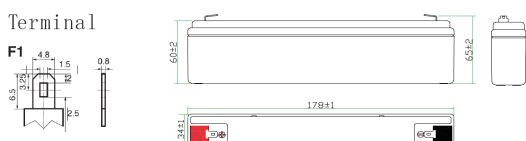
### Specification

<b>Nominal Voltage</b>	12V(6cells) 2.3AH (20hr, 1.75V/cell, 25°C/77°F)
<b>Nominal Capacity</b>	1.95AH (5hr, 1.75V/cell, 25°C/77°F) 1.38AH(1hr, 1.60V/cell, 25°C/77°F)
<b>Dimension</b>	Length 178±1mm Width 34±1mm Container Height 60 +2mm Total Height(with Terminal) 65±2mm
<b>Weight</b>	895G ± 3%
<b>Terminal</b>	F1
<b>Container Material</b>	ABS
<b>Max.Discharge Current</b>	33 A(5S)
<b>Internal Resistance</b>	Approx 75mΩ

<b>Operating Temp Range</b>	Discharge: -15—50°C(5—122°F) Charge : 0—40°C(32—104°F) Storage : -15—40°C(5—104°F)
<b>Nominal Operating Temp.Range</b>	25±3°C(77±5°F)
<b>Cycle Use</b>	14.4~14.8V(25°C/77°F)Temp.Coefficient-30mV/°C Initial Charging Current Less than 0.69A
<b>Standby Use</b>	13.5V~13.8V(25°C/77°F)Temp.Coefficient-20mV/°C No limit on Initial Charging Current
<b>Capacity affected by Temperature</b>	40°C(104°F) 103% 25°C(77°F) 100% 0°C(32°F) 86%
<b>Self Discharge</b>	CASIL CA series batteries may be stored for up to 6months at 25°C(77°F)and then a freshening charge is required. For higher temperatures the time interval will be shorter.



Dimension: 152(L)×65(W)×94(H)×100(TH) Unit: mm



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

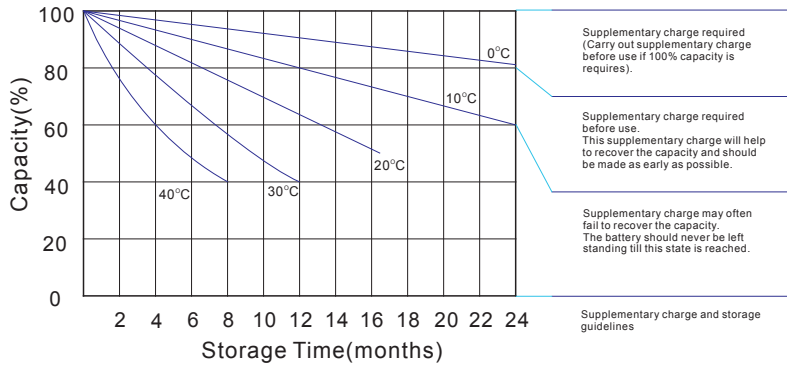
F.V/Time	5min	10min	15min	30min	45min	1h	3h	4h	5h	6h	8h	10h	20h
1.60V	7.4	5.8	3.9	2.2	1.8	1.38	0.6	0.48	0.41	0.36	0.31	0.215	0.120
1.67V	7.2	5.6	3.8	2.1	1.80	1.35	0.6	0.47	0.40	0.36	0.31	0.213	0.118
1.70V	7.1	5.5	3.8	2.1	1.77	1.33	0.6	0.47	0.40	0.35	0.30	0.211	0.117
1.75V	6.9	5.4	3.7	2.0	1.73	1.30	0.58	0.46	0.39	0.35	0.30	0.207	0.115
1.80V	6.8	5.3	3.6	2.0	1.70	1.27	0.56	0.45	0.38	0.34	0.29	0.203	0.113

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

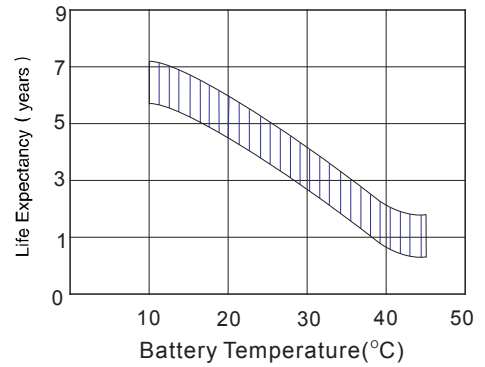
F.V/Time	5min	10min	15min	30min	45min	1h	3h	4h	5h	6h	8h	10h	20h
1.60V	13.2	10.4	7.0	3.9	3.5	2.6	1.20	0.96	0.81	0.72	0.62	0.43	0.239
1.67V	13.0	10.1	6.9	3.8	3.4	2.6	1.18	0.95	0.81	0.71	0.62	0.43	0.237
1.70V	12.7	9.9	6.8	3.7	3.4	2.5	1.17	0.94	0.80	0.70	0.61	0.42	0.235
1.75V	12.5	9.7	6.6	3.7	3.3	2.5	1.15	0.92	0.78	0.69	0.60	0.41	0.230
1.80V	12.2	9.5	6.5	3.6	3.2	2.4	1.13	0.90	0.77	0.68	0.59	0.41	0.225

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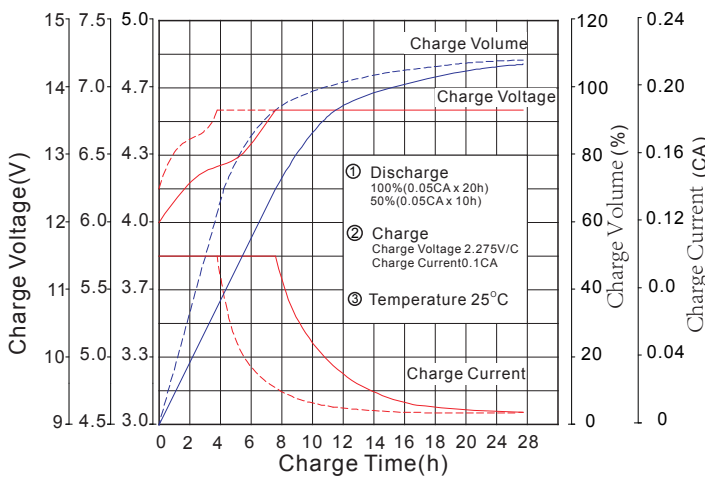
### Storage characteristics



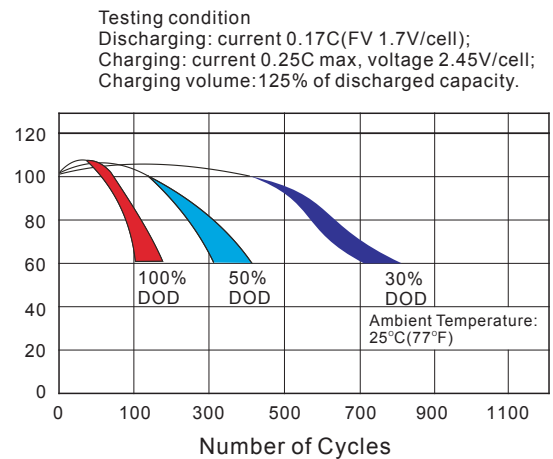
### Effect of temperature on long term float life



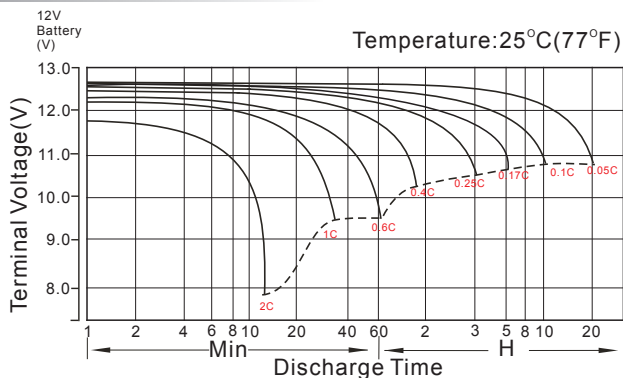
### Charge characteristic Curve for standby use



### Cycle Life in Relation to Depth of Discharge



### Discharge characteristic Curve



### Temperature Effects in Relation to Battery Capacity

