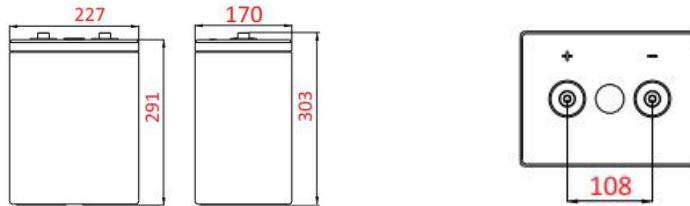


## PHYSICAL SPECIFICATION

Nominal Voltage		2V	
Nominal Capacity (10HR)		400Ah	
Dimension	Length	227±2mm	( 8.94 inches )
	Width	170±2mm	( 6.69 inches )
	Container Height	291±2mm	( 11.45 inches )
	Total Height	303±2mm	( 11.93 inches )
Weight		Approx. 32 Kg (70.5lbs) ±5%	
Standard Terminal		Bolt-and-nuts terminal Bolt Type: M8	



## ELECTRICAL SPECIFICATION

Characteristics			Application
Capacity	120 hour rate (4A to 1.85V/cell) 10 hour rate (40A to 1.80V/cell)	480Ah 400Ah	<ul style="list-style-type: none"> <li>● Home energy storage system</li> <li>● Smart power grids and microgrid system</li> <li>● Distributed energy storage system</li> <li>● Hybrid energy storage system such as solar and wind</li> <li>● Solar power generation grid/off-grid energy storage system</li> <li>● Emergency lighting system</li> <li>● Generator and battery hybrid energy system</li> <li>● Other standby, cycling system</li> </ul>
Operating Temp. Range	Operation(recommended):15°C~25°C Operation(maximum):-40°C~50°C		
Designed life	20 years ( floating ) at 25°C(77 °F)		
Internal Resistance	0.30 mΩ		
Short-Circuit Current	6107A		
Max. charging current	120A		
Max. constant charging current	80A		
Constant Voltage Charge	Cycle	2.30V/cell (25°C)	
	Floating	2.25V/cell (25°C)	

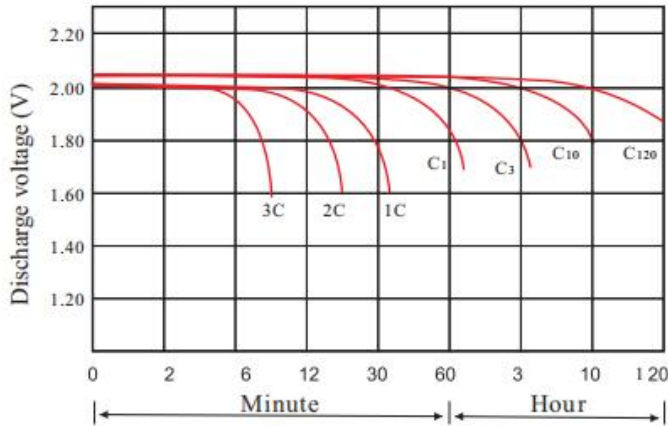
### CONSTANT CURRENT DISCHARGE RATING A@25°C

F.V/TIME	1h	3h	5h	8h	10h	24h	48h	72h	120h
1.75V	226.2	104.0	72.2	50.6	42.1	18.8	9.70	6.60	4.20
1.80V	211.9	100.8	70.5	49.6	41.2	18.5	9.50	6.50	4.10
1.83V	198.4	97.5	68.9	48.7	40.3	18.1	9.30	6.40	4.00
1.85V	191.3	95.6	68.2	48.2	40.1	17.9	9.20	6.30	4.00
1.88V	183.2	93.6	67.5	47.6	39.8	17.7	9.20	6.10	4.00

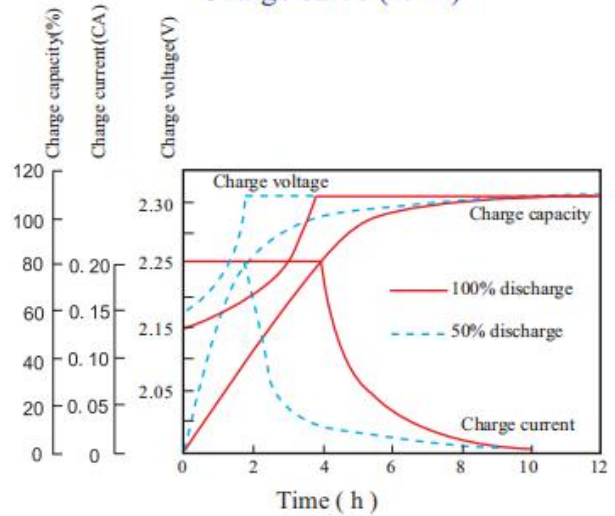
### CONSTANT POWER DISCHARGE RATING WATT PER CELL@25°C

F.V/TIME	15min	30min	1h	2h	3h	4h	5h	8h	10h
1.75V	986.5	717.2	456.8	299.5	231.8	175.5	149.0	98.1	82.4
1.80V	922.9	693.4	446.2	293.9	206.3	169.8	144.9	95.6	81.1
1.83V	886.5	656.3	430.3	282.2	201.2	167.3	141.9	93.7	79.6
1.85V	843.9	621.2	405.8	270.1	195.3	163.3	138.1	92.4	78.0
1.88V	636.9	580.6	381.3	251.0	188.7	157.7	133.6	89.9	76.1

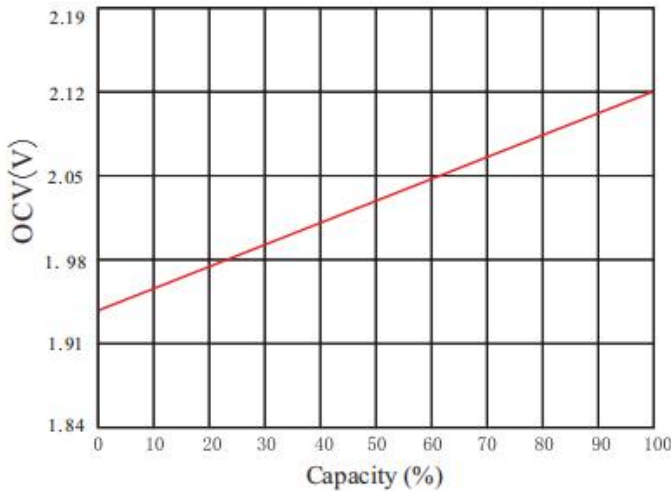
Discharge curve at different rate (25 °C)



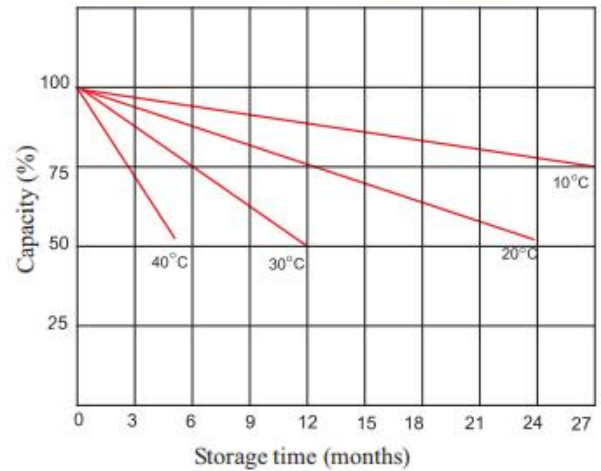
Charge curve (25 °C)



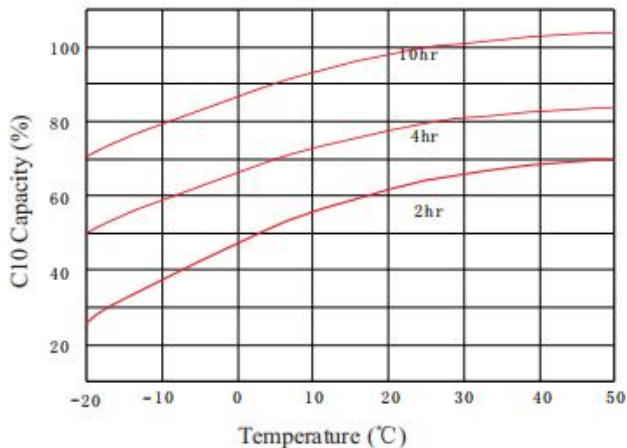
Capacity vs OCV curve



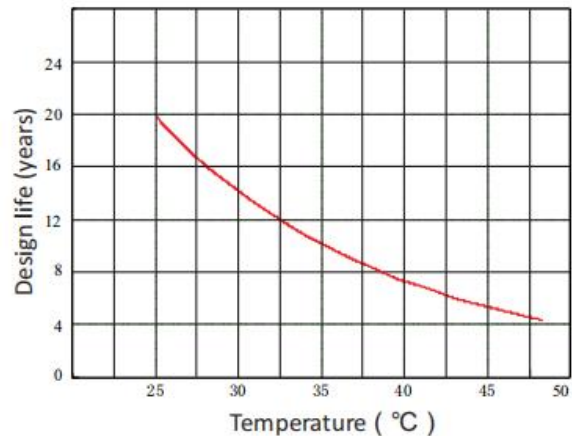
Residue capacity vs storage time



Capacity vs temperature curve



Design life vs temperature



(Note) All above information shall be changed without prior notice, Shimastu reserves the right to explain and update the latest information.