

PHYSICAL SPECIFICATION

Nominal Voltage		2V	
Nominal Capacity (10HR)		490Ah	
Dimension	Length	166±2mm	(6.54 inches)
	Width	206±2mm	(8.11 inches)
	Container Height	471±2mm	(18.54 inches)
	Total Height	526±2mm	(20.70 inches)
Weight		Approx. 38 Kg (83.75lbs)	
Standard Terminal		Bolt-and-nuts terminal Bolt Type: M8	

Unit: mm



ELECTRICAL SPECIFICATION

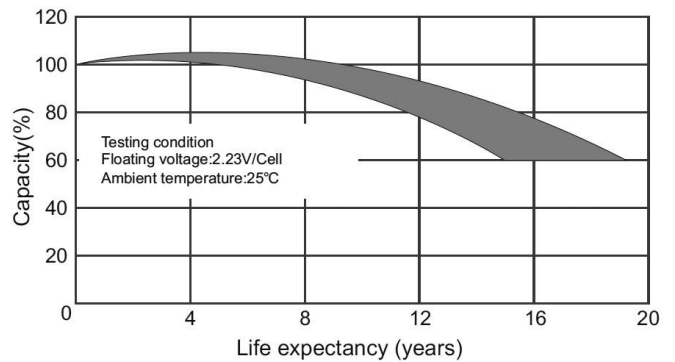
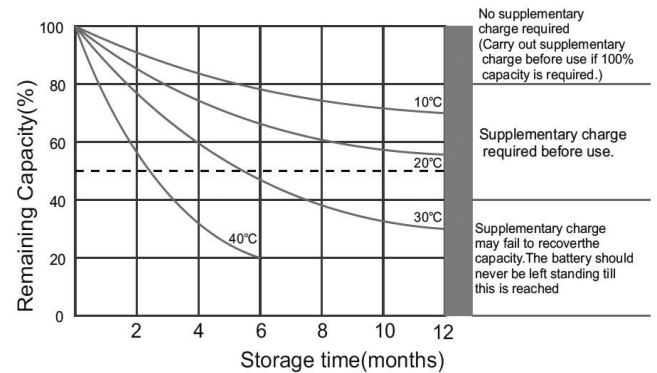
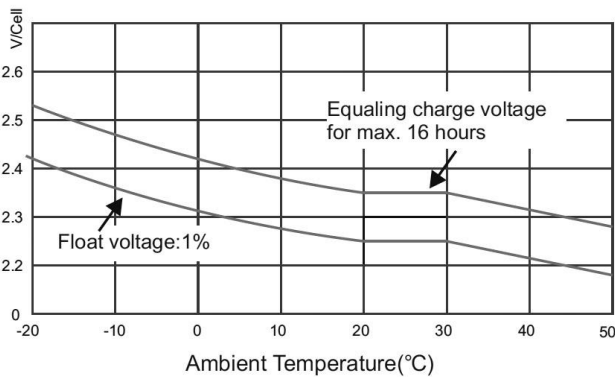
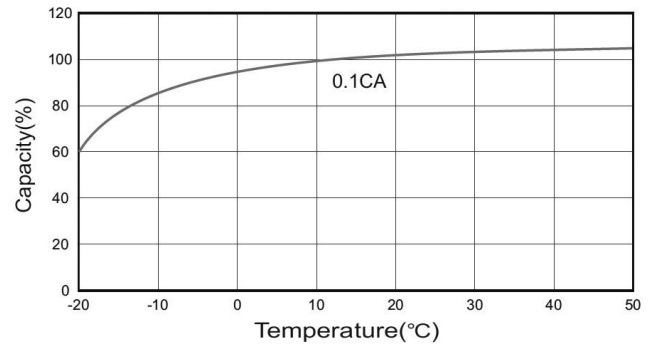
Characteristics			Main Advantages
Capacity	20 hour rate (29.37A to 1.80v/cell) 10 hour rate (50.0A to 1.80v/cell) 5 hour rate (83.0A to 1.75v/cell) 1hour rate (286.8A to 1.60v/cell)	587.4Ah 500.0Ah 415.0Ah 286.8Ah	<ul style="list-style-type: none"> >> adopt tubular positive plate >> longest lifespan under deep discharge >> Strong temperature resistance performance >> Better charge reception capability >> 20 years design life
Operating Temp. Range	Discharge : -20°C~55°C Charge : -10°C~45°C Storage : -15°C~45°C		
Max. Discharge Current	2500A(5sec)		
Short Circuit Current	4800A		
Designed life	20 years (floating) at 25°C (77 °F)		
Internal Resistance	Full charged battery (25°C, 77 °F) 0.42mΩ		
Constant Voltage Charge	Cycle	Initial Charging Current less than ≤125A Voltage: 2.35~2.40V at 25°C (77 °F) Temperature Coefficient -5mV/°C	
	Standby	No limit on Initial Charging Current Voltage: 2.23V at 25°C (77 °F) Temperature Coefficient -3mV/°C	

CONSTANT CURRENT DISCHARGE RATING A@25°C

F.V/TIME	30min	1h	2h	3h	4h	5h	8h	10h	24h
1.60V	413	283	176	127	101	87	62.5	52.0	23.13
1.65V	399	276	173	125	100	86	62.0	51.7	23.10
1.70V	382	268	169	123	99	85	61.3	51.5	22.88
1.75V	368	260	164	120	97	84	60.2	50.7	22.49
1.80V	337	248	158	118	95	82	58.7	49.1	21.95
1.85V	299	230	149	114	92	79	57.0	48.5	21.27

CONSTANT POWER DISCHARGE RATING WATT PER CELL@25°C

F.V/TIME	30min	1h	2h	3h	4h	5h	8h	10h	24h
1.60V	753	521	325	235	188	162	116.2	96.6	43.17
1.65V	735	510	319	232	186	160	115.3	96.2	43.07
1.70V	706	495	312	229	184	158	113.8	95.7	42.58
1.75V	681	483	305	224	181	156	112.3	94.8	42.24
1.80V	629	466	298	222	180	155	111.4	92.7	41.70
1.85V	568	436	285	218	176	152	109.4	93.1	41.21



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