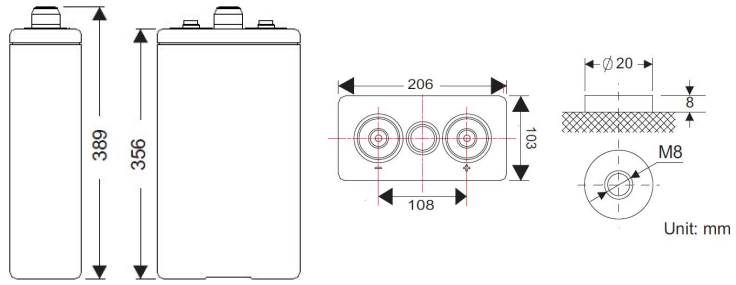
Shimastu OPzV200 Tubular GEL Battery

ISO 9001
ISO 14001
MH28269

PHYSICAL SPECIFICATION

Nominal Voltage Nominal Capacity (10HR)		2V 200Ah
Dimension	Length Width Container Height Total Height	103±2mm (4.06 inches) 206±2mm (8.11 inches) 356±2mm (14.02 inches) 389±2mm (15.31 inches)
Weight		Approx. 19.0Kg ±3% (41.88lbs)
Standard Terminal		Bolt-and-nuts terminal Bolt Type: M8



ELECTRICAL SPECIFICATION

Characteristics

Capacity		10 hour rate (20A t0 1.80v/cell) 5 hour rate (35.6A t0 1.70v/cell) 3 hour rate (52A t0 1.70v/cell) 1hour rate (120A t0 1.60v/cell)	200Ah 178Ah 156Ah 120Ah
Operating Temp. Range		Discharge : -40℃~55℃ Charge : -15℃~50℃ Storage : -20℃~40℃	
Max. Discharge Current		1000A(5sec)	
Short Circuit Current		2200A	
Designed life		20 years (floating) at 25℃(77 ^{0}F)	
Internal Resistance		Full charged battery (25℃,77 ^{0}F) 0.75mΩ	
Constant Voltage Charge	Cycle	Initial Charging Current less than :≤50A Voltage: 2.35~2.40V at 25℃ (77 ^{0}F) Temperature Coefficient –5mV/℃	
	Standby	No limit on Initial Charging Current Voltage: 2.23V at 25℃ (77 ^{0}F) Temperature Coefficient –3mV/℃	

Main Advantages

- >> adopt tubular plate with GEL technology
- >> longest lifespan under deep discharge
- >> Strong temperature resistance performance
- >> Better charge reception capability
- >> 20 years design life

CONSTANT CURRENT DISCHARGE RATING A@25℃

F.V/TIME	15min	30min	1h	2h	3h	4h	5h	8h	10h
1.60V	210	165	120	75	54	43	36.5	25.9	21.2
1.65V	198	157	113	73	53	42	36.1	25.7	21.1
1.70V	187	150	111	71	52	41.8	35.6	25.4	21.0
1.75V	175	142	104	69	51	41	35.0	24.9	20.6
1.80V	163	133	99	67	50	40	34.2	24.3	20.0

CONSTANT POWER DISCHARGE RATING WATT PER CELL@25℃

F.V/TIME	15min	30min	1h	2h	3h	4h	5h	8h	10h
1.60V	362	290	219	140	102	81.5	69.3	49.5	40.6
1.65V	346	275	206	137	100.5	79.9	68.7	49.2	40.5
1.70V	327	264	203	134	99	79.7	68.0	48.8	40.4
1.75V	309	253	194	131	97.5	78.5	67.1	48.0	40.0
1.80V	292	243	186	128	96	76.9	65.8	46.9	38.8

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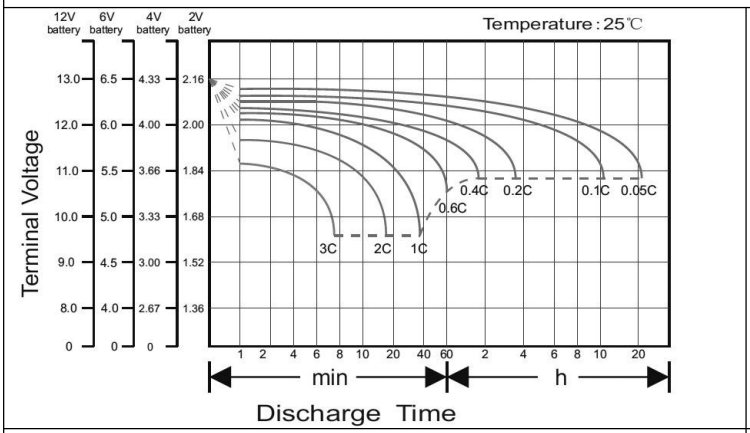

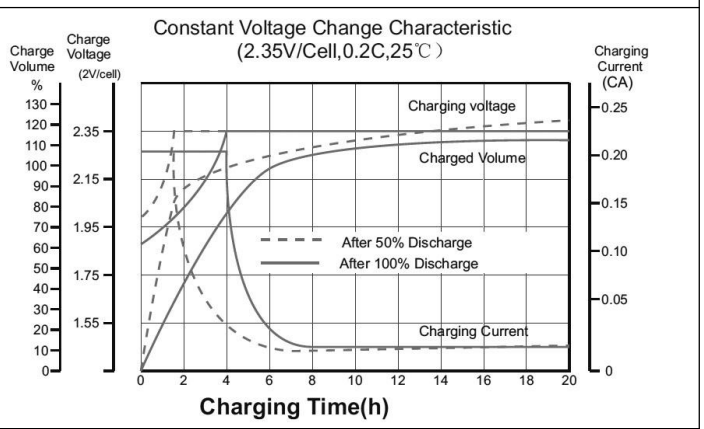

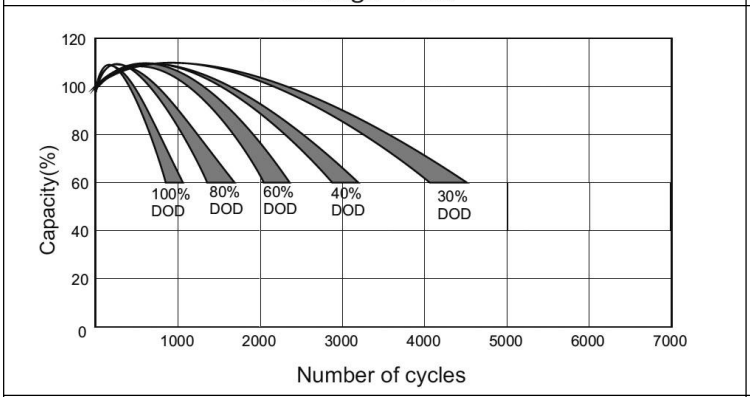

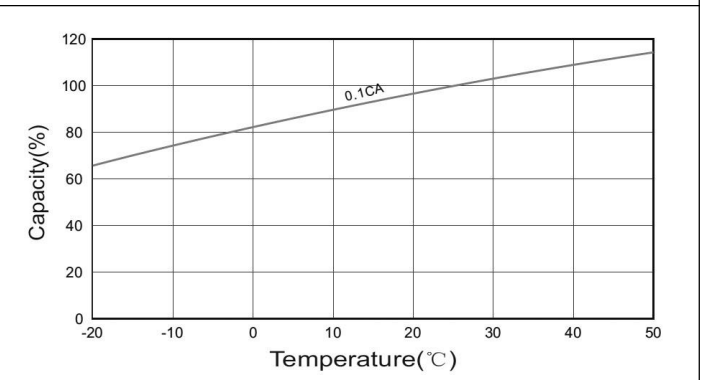

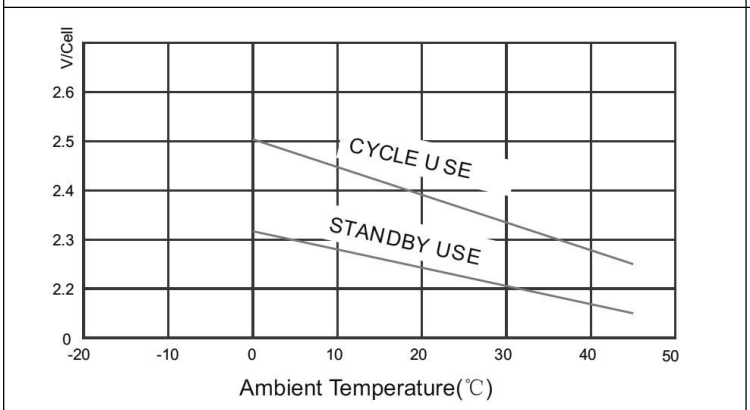

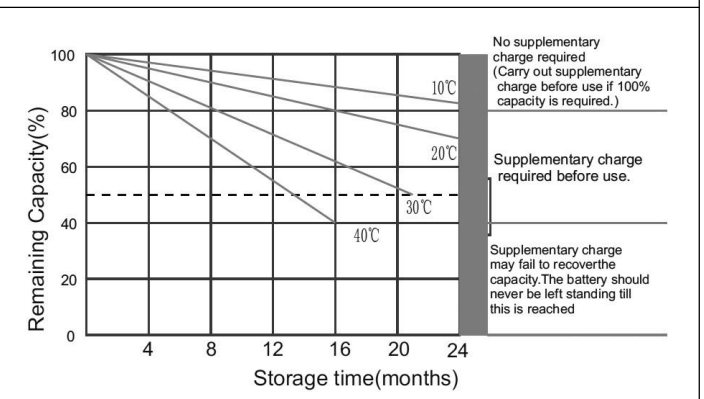

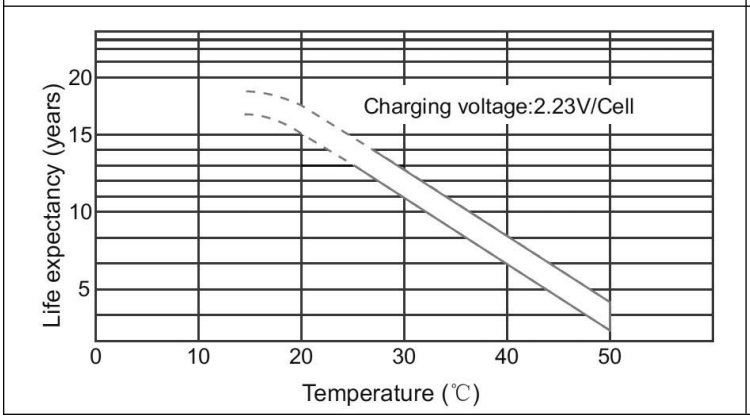

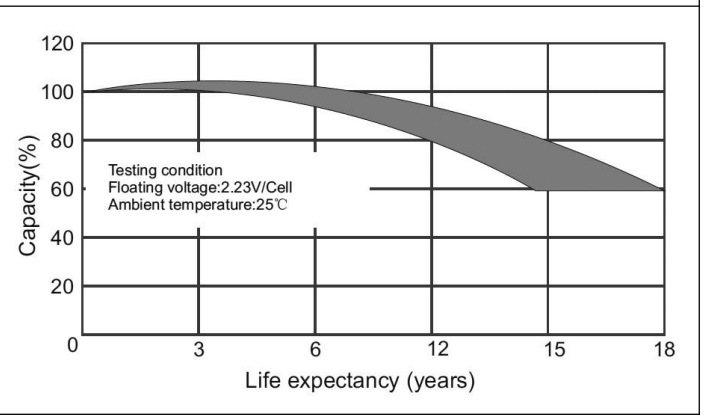

(Note) All above information shall be changed without prior notice, Shimastu reserves the right to explain and update the latest information.

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