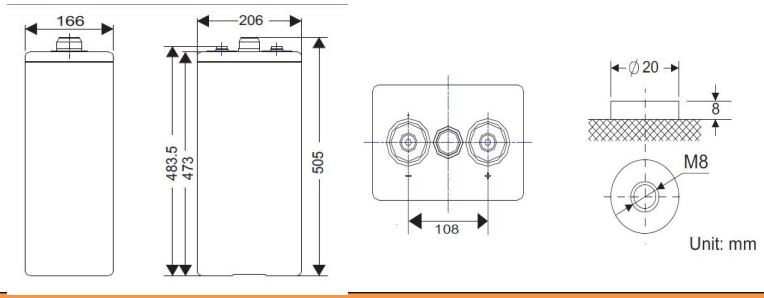
Shimastu OPzV500 Tubular GEL Battery

ISO 9001
ISO 14001
MH28269

PHYSICAL SPECIFICATION

Nominal Voltage Nominal Capacity (10HR)		2V 500Ah
Dimension	Length Width Container Height Total Height	166±2mm （6.54 inches） 206±2mm (8.11 inches) 473±2mm (18.62 inches) 505±2mm (19.88 inches)
Weight		Approx. 39.5 Kg ±3% (87.06lbs)
Standard Terminal		Bolt-and-nuts terminal Bolt Type: M8



ELECTRICAL SPECIFICATION

Characteristics

Capacity		10 hour rate (50.3A t0 1.80v/cell) 5 hour rate (89.0A t0 1.70v/cell) 3 hour rate (130A t0 1.70v/cell) 1hour rate (300A t0 1.60v/cell)	503Ah 445Ah 390Ah 300Ah
Operating Temp. Range		Discharge : -40℃~55℃ Charge : -15℃~50℃ Storage : -20℃~40℃	
Max. Discharge Current		2500A(5sec)	
Short Circuit Current		4800A	
Designed life		20 years (floating) at 25℃(77 ^{0}F)	
Internal Resistance		Full charged battery (25℃,77 ^{0}F) 0.50mΩ	
Constant Voltage Charge	Cycle	Initial Charging Current less than :≤125.0A 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	525	413	300	188	135	108	91.3	64.8	53.0
1.65V	495	393	283	183	133	106	90.3	64.3	52.8
1.70V	468	375	278	178	130	105	89.0	63.5	52.5
1.75V	438	355	260	173	128	103	87.5	62.3	51.8
1.80V	408	333	248	168	125	100	85.5	60.8	50.3

CONSTANT POWER DISCHARGE RATING WATT PER CELL@25℃

F.V/TIME	15min	30min	1h	2h	3h	4h	5h	8h	10h
1.60V	905	725	548	350	255	204	173.4	123.8	101.5
1.65V	866	688	515	343	251	200	171.8	123.0	101.3
1.70V	818	660	508	335	248	199	170.0	122.0	101.0
1.75V	773	633	485	328	244	196	167.8	120.0	100.0
1.80V	730	608	465	320	240	192	164.5	117.3	97.3

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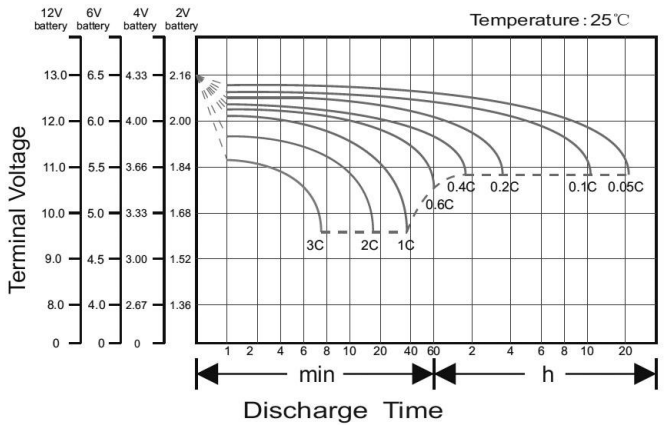

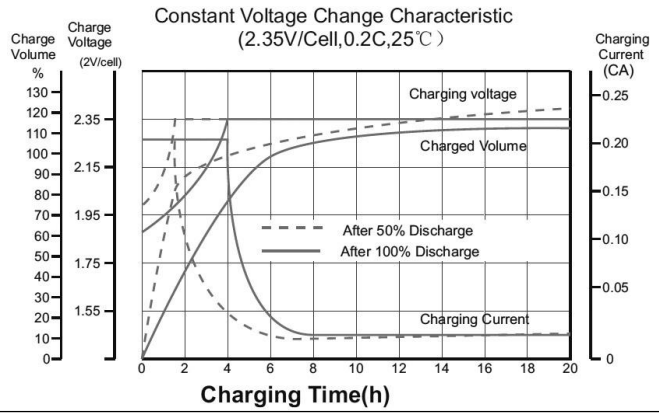

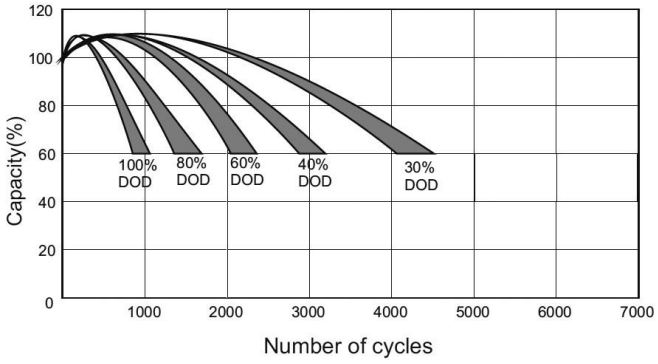

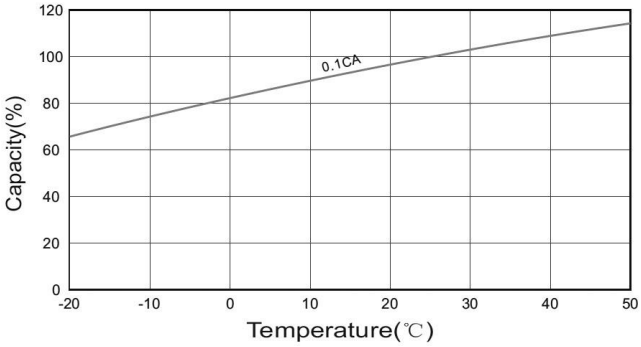

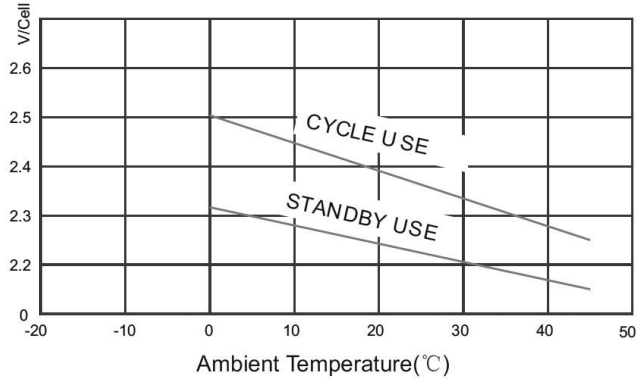

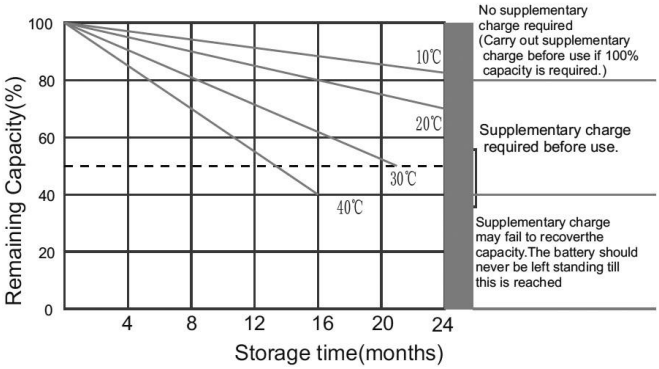

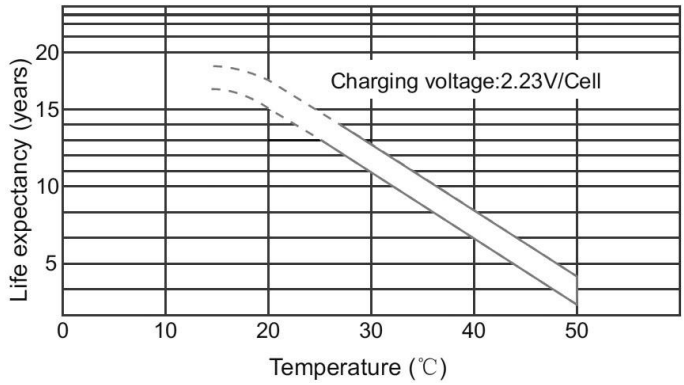

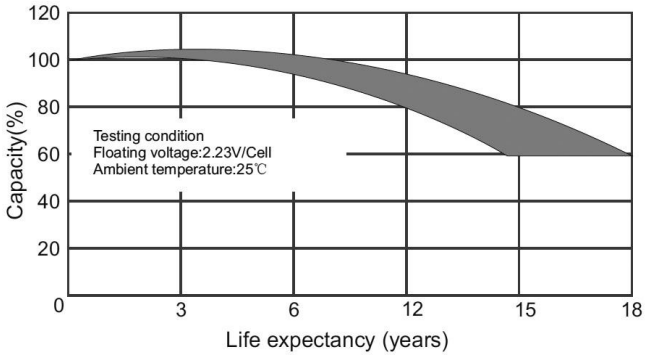

(Note) All above information shall be changed without prior notice, Shimastu reserves the right to explain and update the latest information.

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