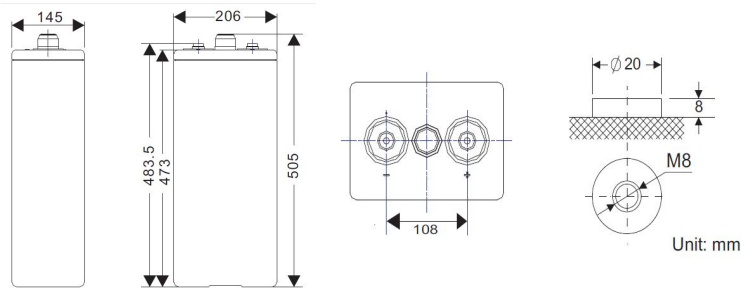
Shimastu OPzV420 Tubular GEL Battery

ISO 9001
ISO 14001

PHYSICAL SPECIFICATION

Nominal Voltage Nominal Capacity (10HR)		2V 420Ah
Dimension	Length Width Container Height Total Height	145±2mm (5.71 inches) 206±2mm (8.11 inches) 473±2mm (18.62 inches) 505±2mm (19.88 inches)
Weight		Approx. 33.5 Kg ±3% (73.83lbs)
Standard Terminal		Bolt-and-nuts terminal Bolt Type: M8



ELECTRICAL SPECIFICATION

Characteristics

Capacity	10 hour rate (42.2A t0 1.80v/cell) 5 hour rate (74.8A t0 1.70v/cell) 3 hour rate (109A t0 1.70v/cell) 1hour rate (252A t0 1.60v/cell)	422Ah 374Ah 327Ah 252Ah
Operating Temp. Range	Discharge : -40℃~55℃ Charge : -15℃~50℃ Storage : -20℃~40℃	
Max. Discharge Current	2000A(5sec)	
Short Circuit Current	4500A	
Designed life	20 years (floating) at 25℃(77 ⁰F)	
Internal Resistance	Full charged battery (25℃,77 ⁰F) 0.55mΩ	
Constant Voltage Charge – Cycle	Initial Charging Current less than :≤100A Voltage: 2.35~2.40V at 25℃ (77 ⁰F) Temperature Coefficient –5mV/℃	
Constant Voltage Charge – Standby	No limit on Initial Charging Current Voltage: 2.23V at 25℃ (77 ⁰F) 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	441	347	252	158	113	90	76.7	54.4	44.5
1.65V	416	330	237	153	111	89	75.8	54.0	44.3
1.70V	393	315	233	149	109	88	74.8	53.3	44.1
1.75V	368	298	218	145	107	86	73.5	52.3	43.5
1.80V	342	279	208	141	105	84	71.8	51.0	42.2

CONSTANT POWER DISCHARGE RATING WATT PER CELL@25℃

F.V/TIME	15min	30min	1h	2h	3h	4h	5h	8h	10h
1.60V	760	609	460	294	214	171	145.5	104.0	85.3
1.65V	727	578	433	288	211	168	144.3	103.3	85.1
1.70V	687	554	426	281	208	167	142.8	102.5	84.8
1.75V	649	531	407	275	205	165	140.9	100.8	84.0
1.80V	613	510	391	269	202	161	138.2	98.5	81.7

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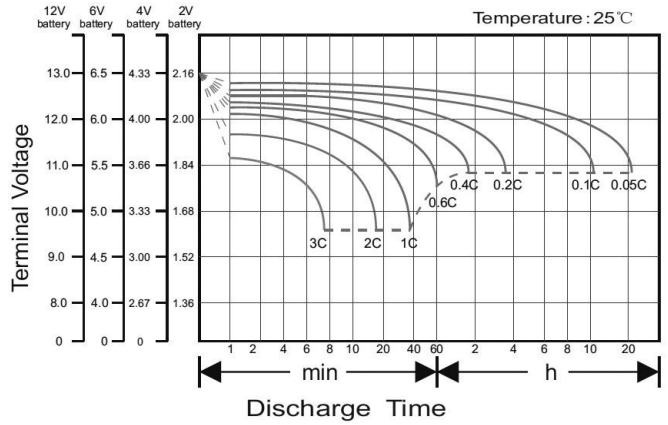
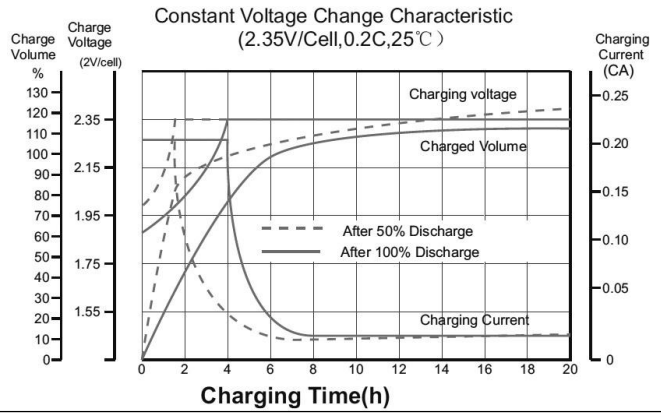
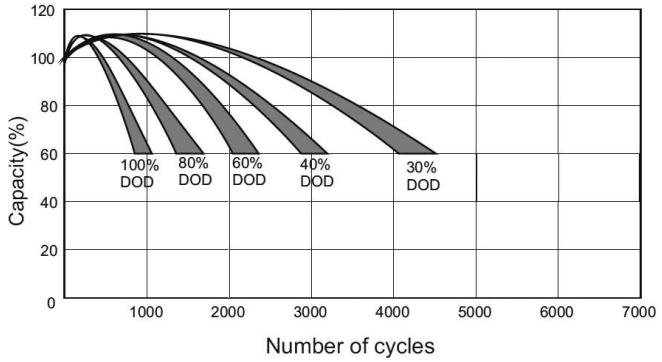
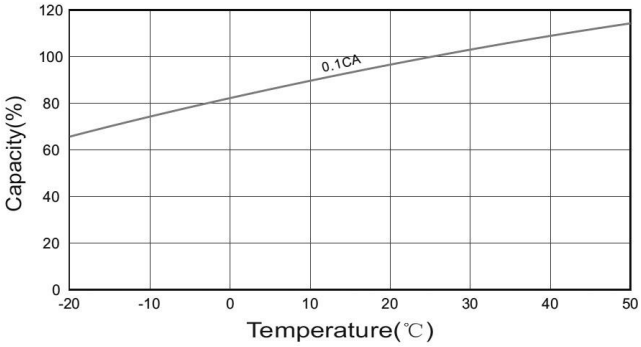
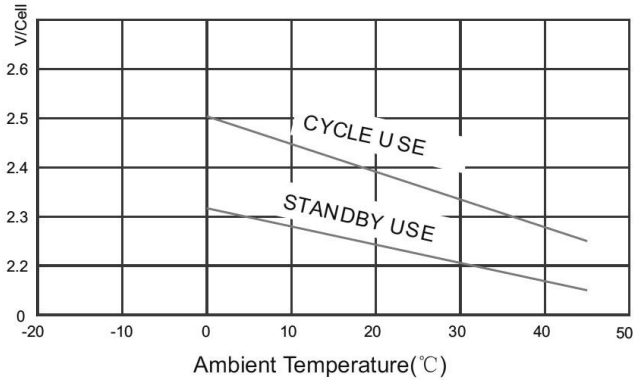
MH28269

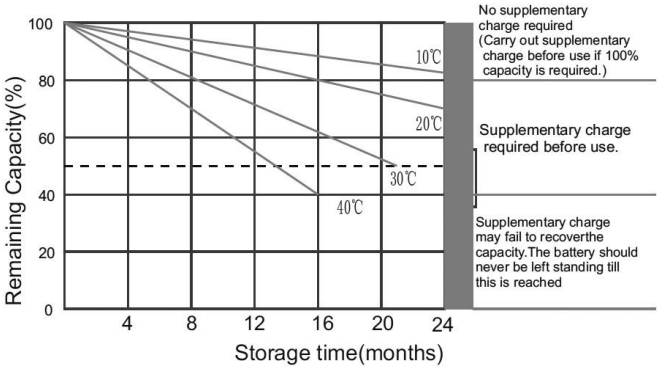


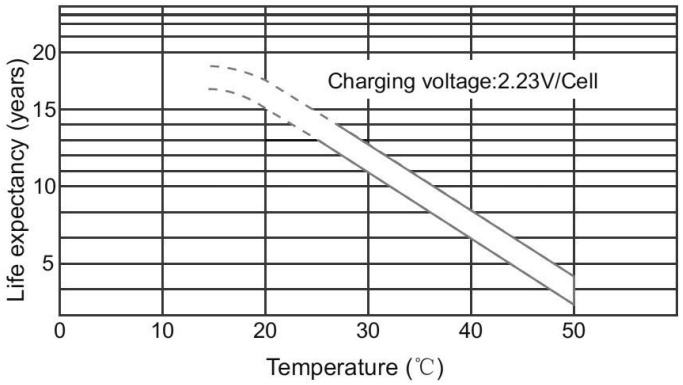


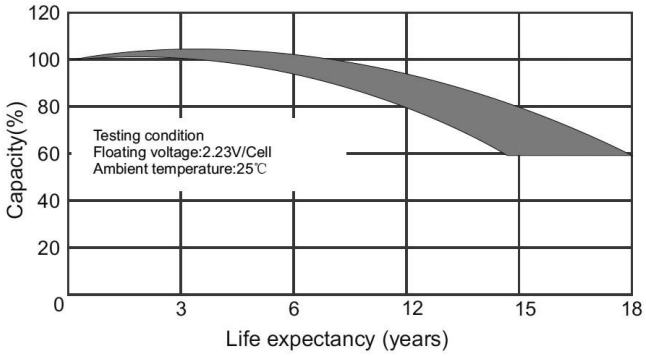












(Note) All above information shall be changed without prior notice, Shimastu reserves the right to explain and update the latest information.

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