



# OPzS300 Tubular Battery



## PHYSICAL SPECIFICATION

Nominal Voltage		2V	
Nominal Capacity (10HR)		300Ah	
Dimension	Length	145±2mm	(5.71 inches)
	Width	206±2mm	(8.11 inches)
	Container Height	355±2mm	(13.98 inches)
	Total Height	410±2mm	(16.14 inches)
Weight		Approx. 24 Kg (52.90lbs)	
Standard Terminal		Bolt-and-nuts terminal Bolt Type: M8	



## ELECTRICAL SPECIFICATION

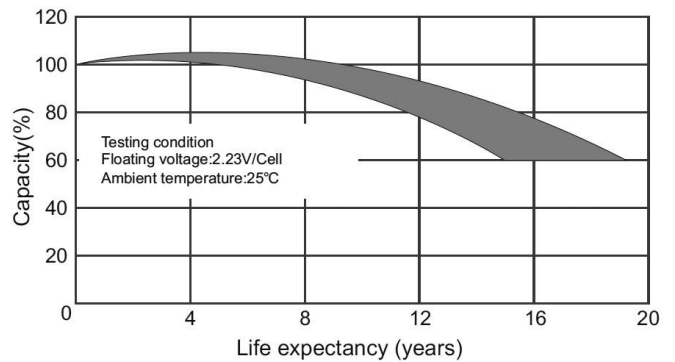
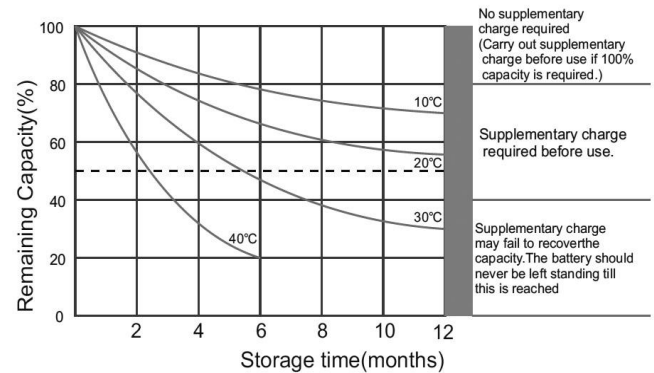
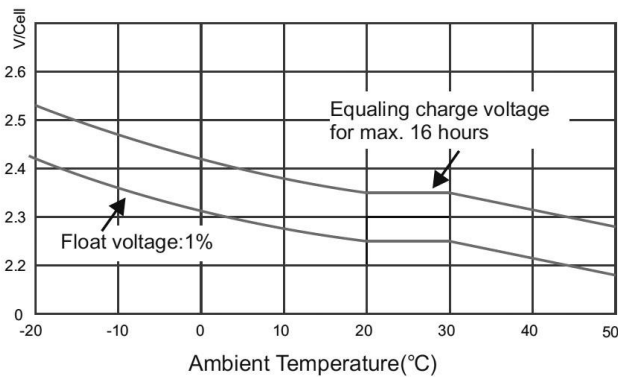
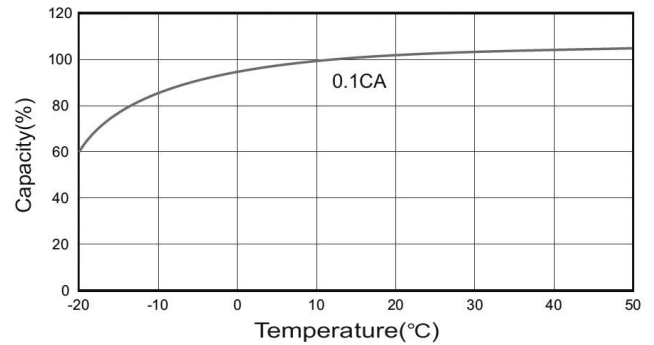
Characteristics			Main Advantages
Capacity	20 hour rate (18.62A to 1.80v/cell) 10 hour rate (31.69A to 1.80v/cell) 5 hour rate (54.12A to 1.75v/cell) 1hour rate (181.8A to 1.60v/cell)	372.4Ah 316.9Ah 270.6Ah 181.8Ah	<ul style="list-style-type: none"> <li>&gt;&gt; adopt tubular positive plate</li> <li>&gt;&gt; longest lifespan under deep discharge</li> <li>&gt;&gt; Strong temperature resistance performance</li> <li>&gt;&gt; Better charge reception capability</li> <li>&gt;&gt; 20 years design life</li> </ul>
Operating Temp. Range	Discharge : -20°C~55°C Charge : -10°C~45°C Storage : -15°C~45°C		
Max. Discharge Current	1200A(5sec)		
Short Circuit Current	3300A		
Designed life	20 years ( floating ) at 25°C(77 °F)		
Internal Resistance	Full charged battery (25°C,77 °F) 0.56mΩ		
Constant Voltage Charge	Cycle	Initial Charging Current less than :≤75A 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	253	173	108	78	62	53	38.3	31.8	14.16
1.65V	244	169	106	77	61	53	38.0	31.7	14.16
1.70V	234	164	103	75	61	52	37.5	31.5	14.01
1.75V	225	159	101	74	59	51	36.8	31.1	13.77
1.80V	206	152	97	72	58	50	35.9	30.1	13.44
1.85V	183	141	92	70	56	48	34.9	29.7	13.02

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

F.V/TIME	30min	1h	2h	3h	4h	5h	8h	10h	24h
1.60V	461	319	199	144	115	99	71.1	59.2	26.43
1.65V	450	312	195	142	114	98	70.6	58.9	26.37
1.70V	432	303	191	140	113	97	69.7	58.6	26.07
1.75V	417	296	187	137	111	95	68.7	58.1	25.86
1.80V	385	285	182	136	110	95	68.2	56.8	25.53
1.85V	348	267	175	134	108	93	67.0	56.0	25.23



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