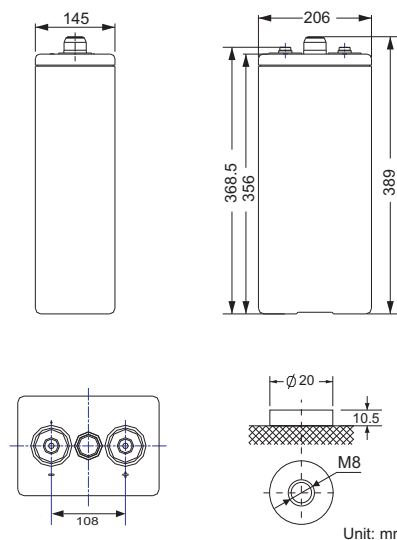


Specifications

Rated Voltage	2V		
Nominal Capacity(C ₁₀ , 1.80V/cell)	300Ah		
Dimension	Length	145 ± 2mm	
	Width	206 ± 2mm	
	Container Height	356 ± 2mm	
	Total Height	389 ± 2mm	
Approx Weight	26.5kg		
Terminal	M8		
Container Material	ABS		
Rated Capacity(25 °C)	300Ah	C10(30A, 1.80V/cell)	
	255Ah	C5(51A, 1.80V/cell)	
	225Ah	C3(75A, 1.80V/cell)	
	150Ah	C1(150A, 1.80V/cell)	
Max. Discharge Current	1500A (5s)		
Internal Resistance(25 °C)	Approx 0.62mΩ		
Operating Temp. Range	Discharge	-15~50 °C	
	Charge	-15~50 °C	
	Storage	-20~40 °C	
Nominal Operating Temp. Range	25 ± 5 °C (77 ± °F)		
Max. Charging Current(25 °C)	75A		
Charge voltage(25 °C)	Float	Charge voltage	Temp. Coefficient
		Equalization	-3mv/cell/°C
		Cycle	-4mv/cell/°C
			-5mv/cell/°C
Effect of temp. to Capacity	40 °C (104 °F)	105%	
	25 °C (77 °F)	100%	
	0 °C (32 °F)	85%	
Self Discharge	≤ 3%/month@25 °C		



Layout



General Features

- 20 years design life (25 °C)
- adopt tubular plate with GEL technology
- Gas phase SiO₂ colloidal battery technology
- PF/PVC-SiO₂ separator
- ABS material battery case
- Widely used in communication systems, military fields, power systems, broadcasting and television systems, etc

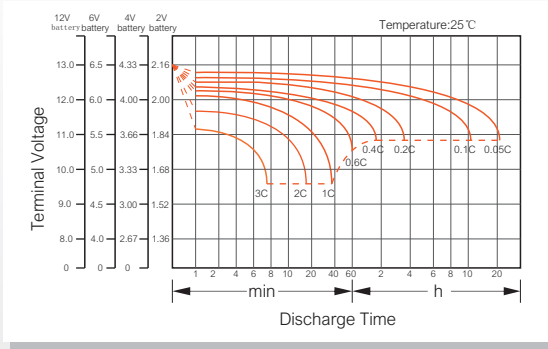
Constant Current Discharge (A)25 °C

F.V/Time	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h
1.60V	312	245	178	111	80	64	54.2	47.7	38.5	31.5
1.65V	294	233	168	108	79	62	53.6	47.1	38.2	31.3
1.70V	278	223	165	105	77	62	52.9	46.3	37.7	31.2
1.75V	260	211	154	102	76	61	52.0	45.4	37.0	30.7
1.80V	242	198	150	99	75	59	51.0	44.3	36.1	30.0
1.85V	223	180	138	94	71	58	49.2	42.8	35.0	29.4

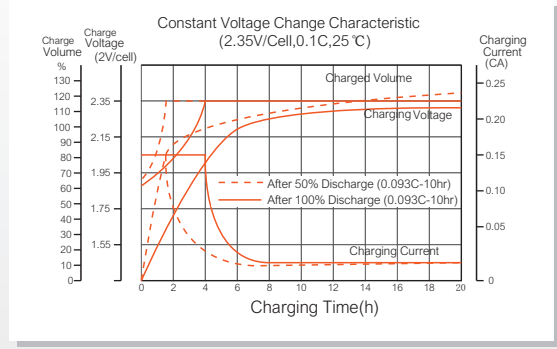
Constant Power Discharge (W/cell)25 °C

F.V/Time	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h
1.60V	538	431	325	208	151	121.0	102.9	90.7	73.5	60.3
1.65V	514	408	306	203	149	118.7	102.0	89.8	73.1	60.1
1.70V	486	392	301	199	147	118.4	101.0	88.7	72.5	60.0
1.75V	459	376	288	195	145	116.6	99.6	87.3	71.3	59.4
1.80V	434	361	276	190	143	114.2	97.7	85.2	69.6	57.8
1.85V	402	333	263	180	138	112.4	95.6	83.3	68.3	57.5

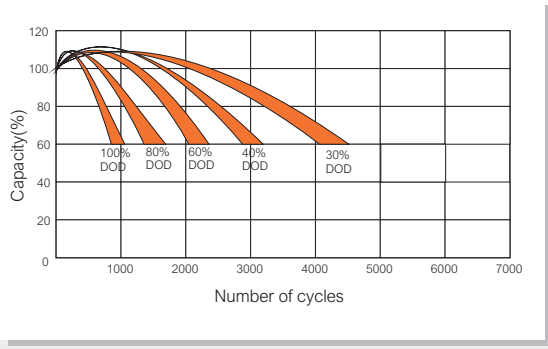
Dicharge Characteristics Curve



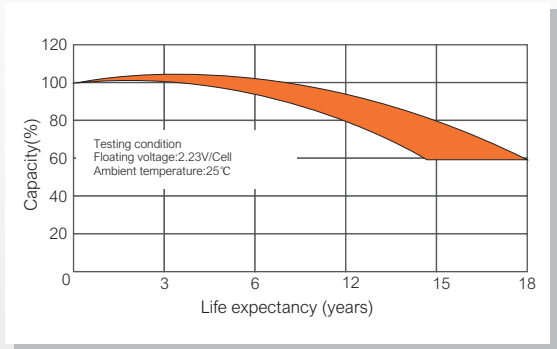
Charging Characteristics Curve



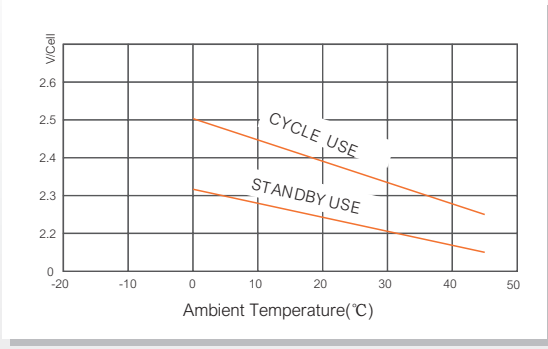
Cycle life of Different DOD



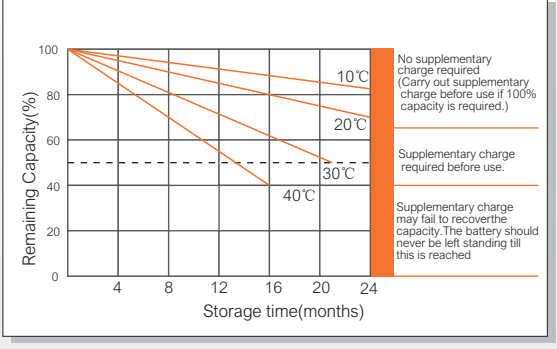
Float charging service life Curve



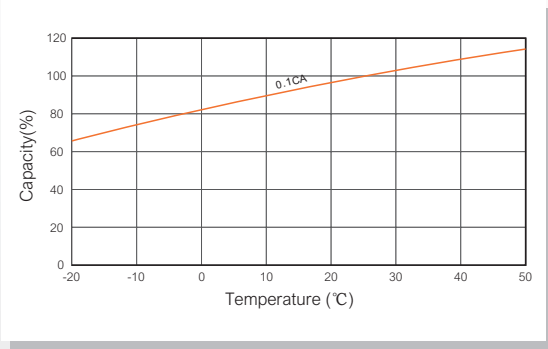
Charging voltage and temperature relationship



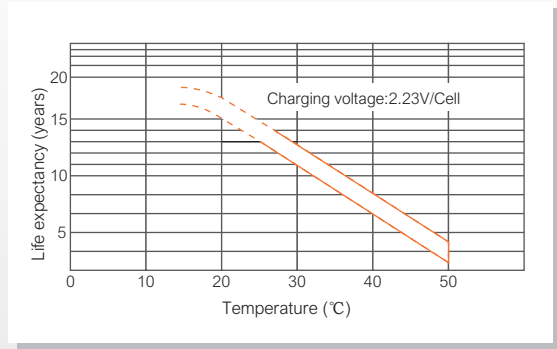
Self-discharge Characteristics



Temperature Effects in Relation to Battery Capacity



Temperature Effects on Long Term Float Life



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