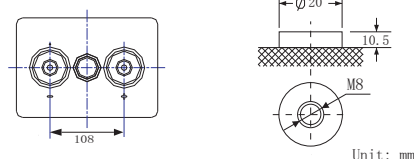
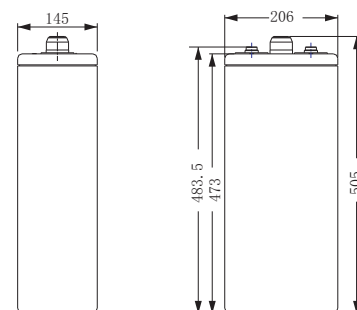


Specifications

Rated Voltage	2V		
Nominal Capacity(C ₁₀ , 1.80V/cell)	420Ah		
Dimension	Length	145 ± 2mm	
	Width	206 ± 2mm	
	Container Height	473 ± 2mm	
	Total Height	505 ± 2mm	
Approx Weight	33.5kg		
Terminal	M8		
Container Material	ABS		
Rated Capacity(25 °C)	420Ah	C10(42A, 1.80V/cell)	
	357Ah	C5(71.4A, 1.80V/cell)	
	315Ah	C3(105A, 1.80V/cell)	
	210Ah	C1(210A, 1.80V/cell)	
Max. Discharge Current	2100A (5s)		
Internal Resistance(25 °C)	Approx 0.55mΩ		
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)	105A		
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



Unit: mm

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

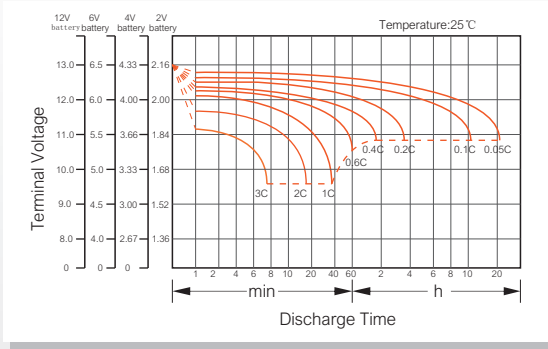
Constant Current Discharge (A)25 °C

F. V/Time	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h
1.60V	426	332	242	156	112	89	75.8	66.6	53.8	44.1
1.65V	411	326	235	152	110	87	75.0	65.9	53.4	43.8
1.70V	388	311	231	147	108	86	74.0	64.8	52.8	43.6
1.75V	363	294	215	143	106	85	72.7	63.5	51.7	43.0
1.80V	338	276	210	139	105	83	71.5	62.0	50.4	42.0
1.85V	311	251	193	131	100	81	68.8	59.8	49.0	41.1

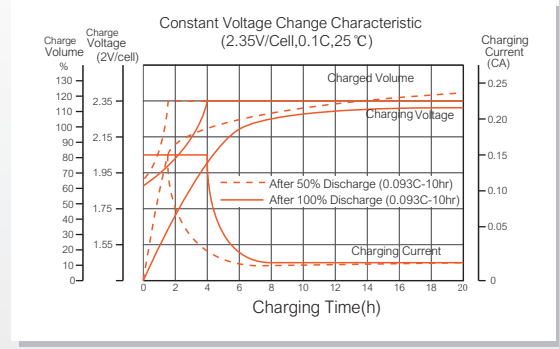
Constant Power Discharge (W/cell)25 °C

F. V/Time	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h
1.60V	717	574	434	277	202	161	137	121	98.0	80.4
1.65V	685	545	408	271	199	158	136	120	97.4	80.2
1.70V	647	523	402	265	196	157	134	118	96.6	80.0
1.75V	612	501	384	259	193	155	133	116	95.0	79.2
1.80V	578	481	368	253	190	152	130	114	92.9	77.0
1.85V	537	444	350	240	184	149	127	111	91.1	76.6

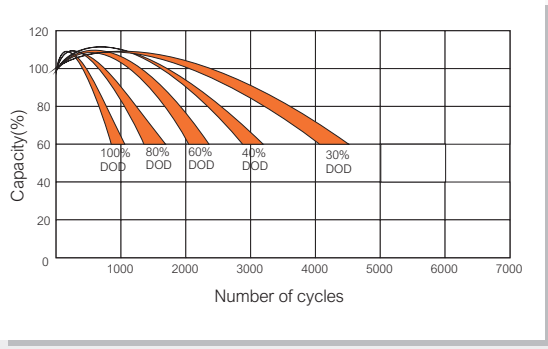
Dicharge Characteristics Curve



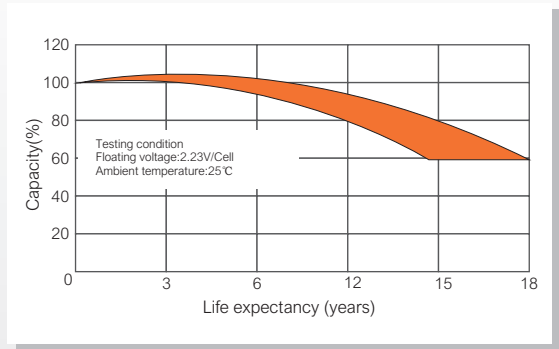
Charging Characteristics Curve



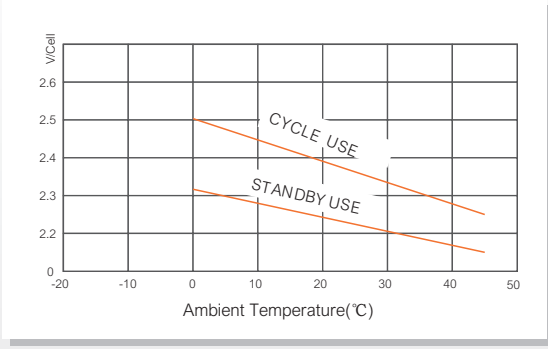
Cycle life of Different DOD



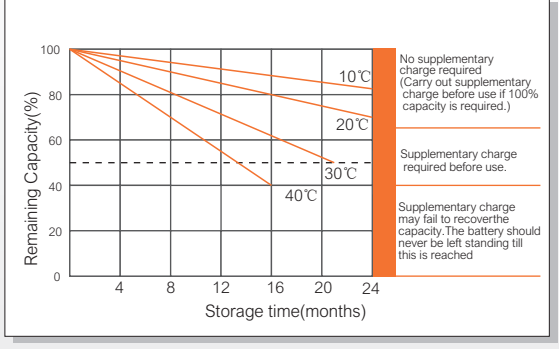
Float charging service life Curve



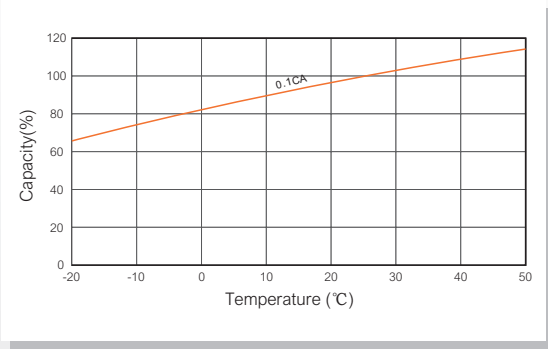
Charging voltage and temperature relationship



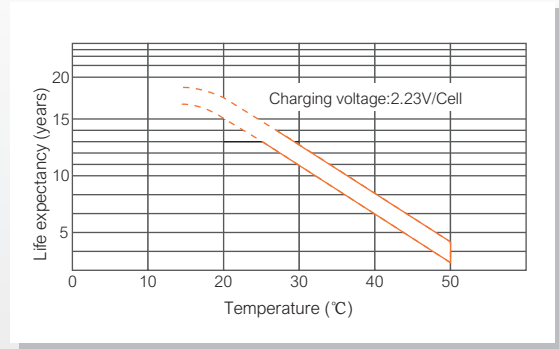
Self-discharge Characteristics



Temperature Effects in Relation to Battery Capacity



Temperature Effects on Long Term Float Life



Kaiying Power Supply & Electrical Equip Co., Ltd

Tel: 0595-68782266 Fax: 0595-68782222

Email: sales@longwaybattery.com

Website: <http://www.longwaybattery.com>

ADD: Laogang Industry Area, Anxi Town, Quanzhou City, Fujian Province.