



LIFETIME BATTERY

VALVE REGULATED SEALED LEAD ACID BATTERIES

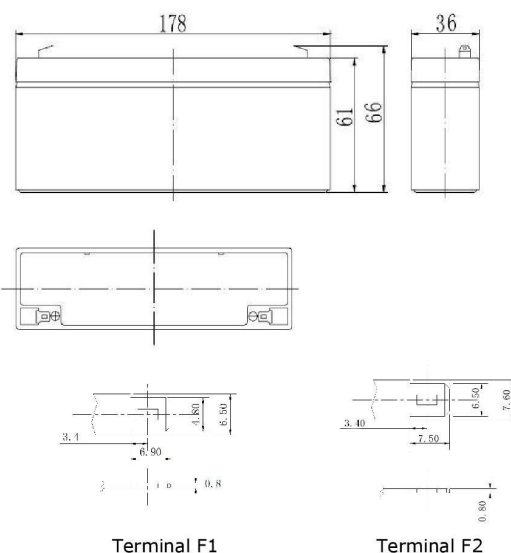
STANDBY SERIES
12002.3(12V2.3AH/20HR)

Specifications

Nominal Voltage	12V	
Nominal Capacity(20hr)	2.3AH	
Dimension	Length	178±2mm(7.01inch)
	Width	36±2mm(1.42inch)
	Height	61±2mm(2.40inch)
	Total Height	66±2mm(2.60inch)
Approx Weight	Approx. 0.92kg(+5%)	
Terminal Type	F1/F2	
container Material	ABS(UL-94HB)	
Internal Resistance	Approx.100mΩ	
Rated Capacity	2.30Ah	(20hr, 1.70V/cell,25℃/77°F)
	2.25Ah	(10hr, 1.75V/cell,25℃/77°F)
	2.05Ah	(5hr, 1.75V/cell,25℃/77°F)
	1.70Ah	(3hr, 1.70V/cell,25℃/77°F)
	1.60Ah	(1hr, 1.60V/cell,25℃/77°F)
Max. Discharge Current	20A(5S)	
Nominal Operating Temp. Range	25±3℃ (77±5°F)	
Cycle Use	Charge Current Less Than 0.25CA	
	14.1V~14.7V@25℃(77°F)Temp. Coefficient -30mV/℃	
Floating Use	13.5V~13.8V@25℃(77°F)Temp. Coefficient -20mV/℃	
Capacity affected by Temperature	40℃	103%
	25℃	100%
	0℃	86%
	-15℃	65%
Self-discharge	3 month	Remaining capacity: 91%
	6 month	Remaining capacity: 82%
	12month	Remaining capacity: 65%



Dimensions



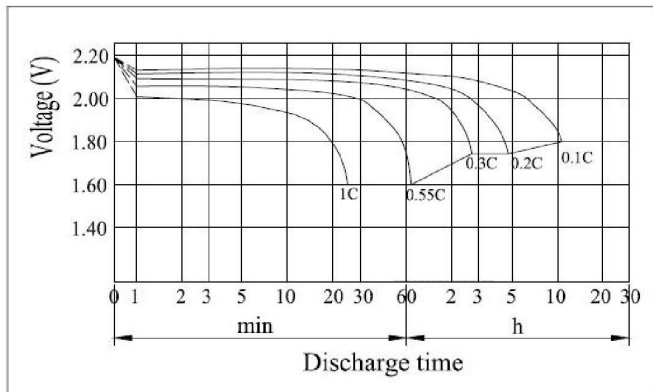
Constant Power Discharge at 25℃(77°F)

F.V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	6h	10h	20h
1.80V/cell	13.45	9.87	7.95	4.96	3.03	1.93	1.21	0.99	0.86	0.73	0.45	0.23
1.75V/cell	15.06	10.55	8.42	5.08	3.08	1.97	1.22	1.00	0.86	0.74	0.45	0.24
1.70V/cell	16.67	11.00	8.88	5.19	3.12	2.00	1.23	1.01	0.87	0.76	0.46	0.25
1.67V/cell	17.00	11.33	9.09	5.23	3.13	2.00	1.24	1.01	0.87	0.76	0.46	0.26
1.60V/cell	18.14	11.79	9.58	5.32	3.14	2.01	1.24	1.02	0.88	0.76	0.47	0.26

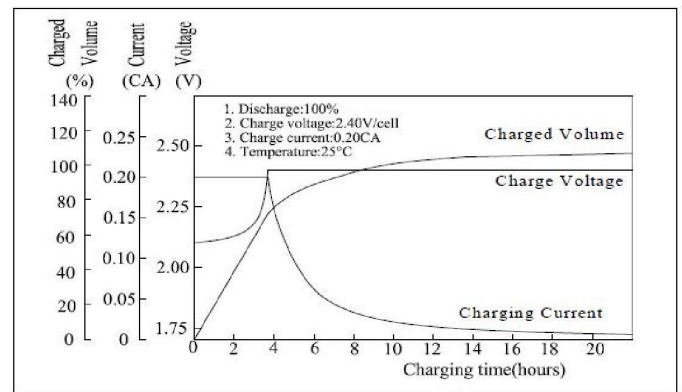
Constant Current Discharge at 25℃(77°F)

F.V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	6h	10h	20h
1.80V/cell	6.42	4.74	3.79	2.36	1.44	0.92	0.58	0.47	0.39	0.36	0.22	0.12
1.75V/cell	7.19	5.08	4.02	2.43	1.46	0.94	0.58	0.48	0.39	0.36	0.22	0.12
1.70V/cell	7.96	5.43	4.25	2.49	1.49	0.95	0.59	0.49	0.39	0.37	0.22	0.12
1.67V/cell	8.42	5.60	4.34	2.50	1.50	0.96	0.59	0.49	0.40	0.37	0.23	0.13
1.60V/cell	8.99	6.01	4.62	2.54	1.51	0.96	0.60	0.49	0.40	0.37	0.23	0.13

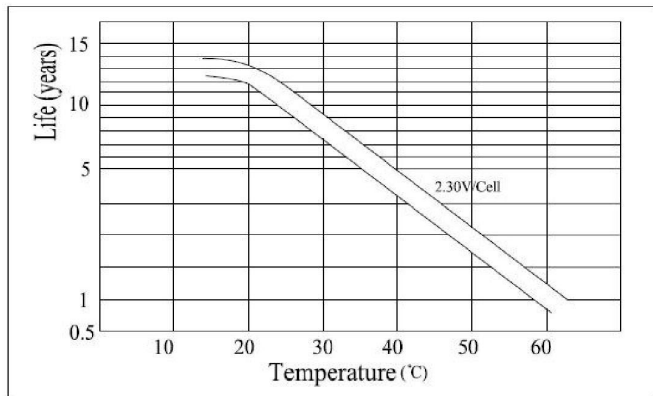
Discharge Characteristics



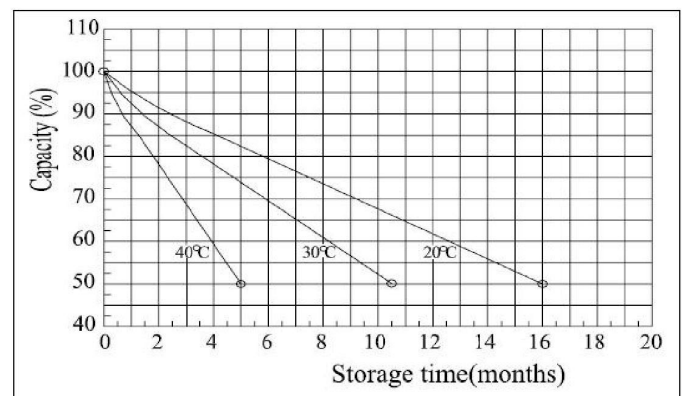
Float Charging Characteristics



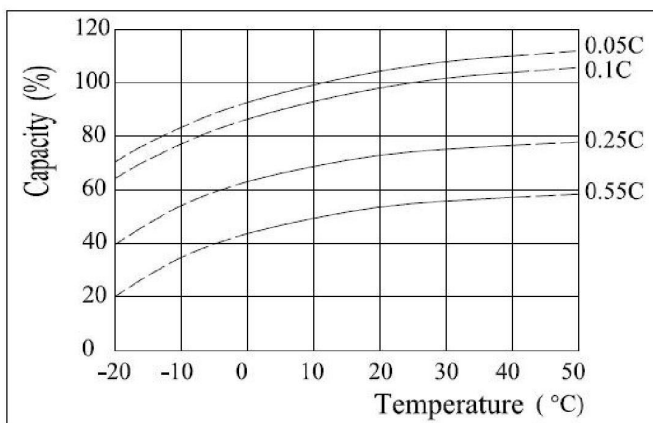
Floating Life on Temperature



Self Discharge Characteristics (25°C(77°F))



Temperature Effects in Relation to Battery Capacity



Cycle Life Relation to Depth of Discharge

