



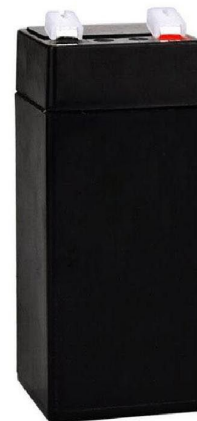
LIFETIME BATTERY

VALVE REGULATED SEALED LEAD ACID BATTERIES

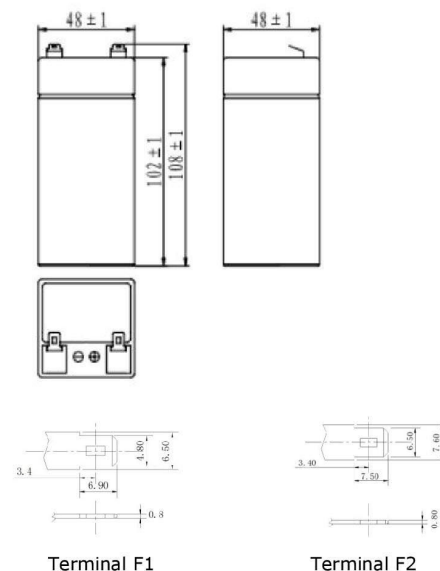
STANDBY SERIES
04004.5(4V4.5AH/20HR)

Specifications

Nominal Voltage	4V	
Nominal Capacity(20hr)	4.5AH	
Dimension	Length	48±2mm(1.89inch)
	Width	48±2mm(1.89inch)
	Height	101±2mm(3.98inch)
	Total Height	107±2mm(4.21inch)
Approx Weight	Approx. 0.5kg(+ -5%)	
Terminal Type	F1	
container Material	ABS(UL-94HB)	
Internal Resistance	Approx. 10mΩ	
Rated Capacity	4.50AH	(20hr, 1.70V/cell, 25°C/77°F)
	4.20AH	(10hr, 1.75V/cell, 25°C/77°F)
	3.95AH	(5hr, 1.75V/cell, 25°C/77°F)
	3.60AH	(3hr, 1.70V/cell, 25°C/77°F)
	2.70AH	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	60A(5S)	
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Cycle Use	Charge Current Less Than 0.25CA	
	4.70V~4.90V@25°C(77°F)Temp. Coefficient -30mV/°C	
Floating Use	4.50V~4.60V@25°C(77°F)Temp. Coefficient -20mV/°C	
Capacity affected by Temperature	40°C	103%
	25°C	100%
	0°C	86%
	-15°C	65%
Self-discharge	3 month	Remaining capacity: 91%
	6 month	Remaining capacity: 82%
	12month	Remaining capacity: 65%



Dimensions

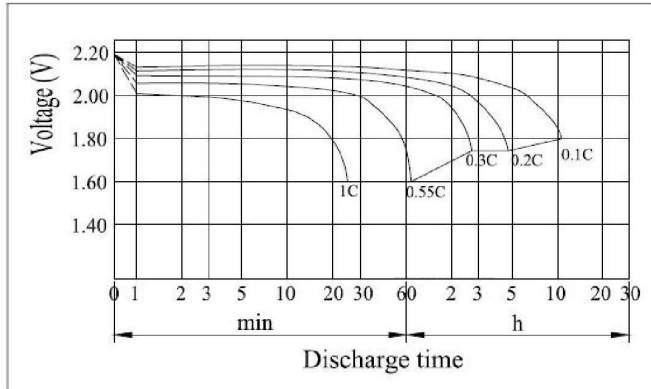
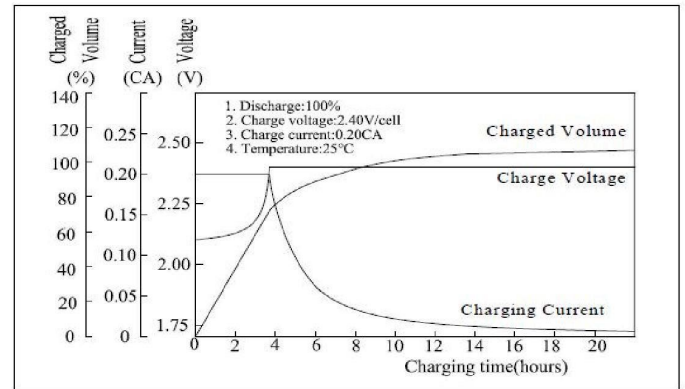
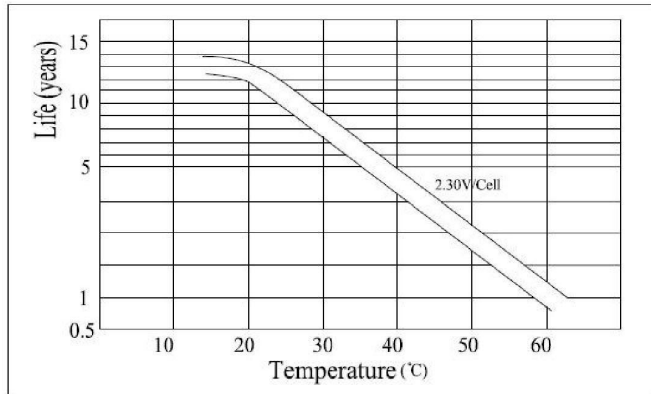
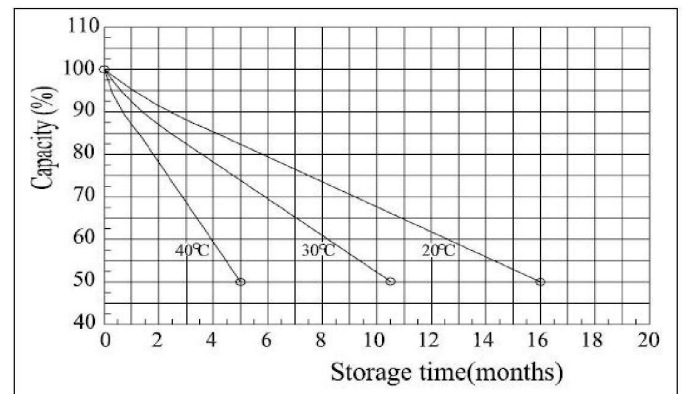
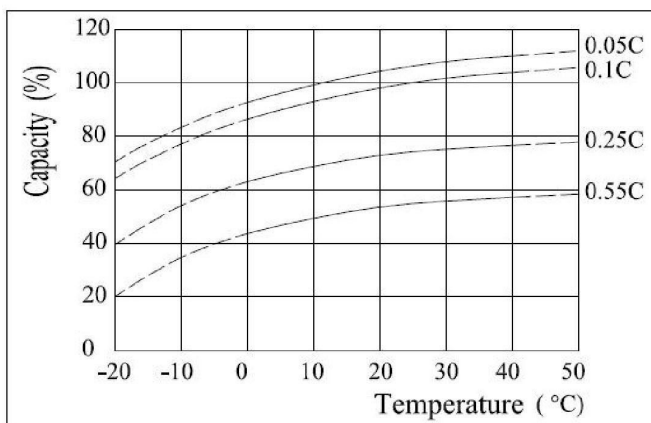


Constant Power Discharge at 25°C(77°F)

F.V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	6h	10h	20h
1.80V/Cell	31.6	22.7	18.0	10.8	5.88	3.32	2.47	1.99	1.55	1.38	0.81	0.42
1.75V/Cell	32.2	23.1	18.4	11.0	5.99	3.38	2.51	2.03	1.58	1.40	0.82	0.43
1.70V/Cell	33.2	23.8	18.9	11.3	6.17	3.49	2.59	2.09	1.63	1.44	0.85	0.44
1.67V/Cell	34.5	24.7	19.7	11.8	6.41	3.62	2.69	2.17	1.69	1.50	0.88	0.44
1.60V/Cell	36.4	26.1	19.9	12.4	6.77	3.83	2.84	2.29	1.72	1.55	0.89	0.44

Constant Current Discharge at 25°C(77°F)

F.V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	6h	10h	20h
1.80V/Cell	16.6	11.9	9.5	5.7	3.10	1.75	1.30	1.05	0.82	0.72	0.42	0.22
1.75V/Cell	17.0	12.2	9.7	5.8	3.15	1.78	1.32	1.07	0.83	0.74	0.43	0.22
1.70V/Cell	17.5	12.5	10.0	6.0	3.25	1.84	1.36	1.10	0.86	0.76	0.45	0.23
1.67V/Cell	18.1	13.0	10.3	6.2	3.37	1.91	1.42	1.14	0.89	0.79	0.46	0.23
1.60V/Cell	19.2	13.7	10.5	6.5	3.56	2.01	1.50	1.21	0.90	0.81	0.47	0.23

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
