

#### FEATURES

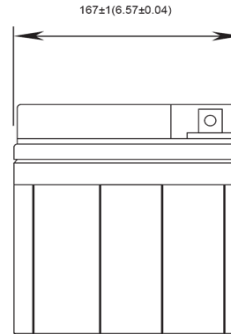
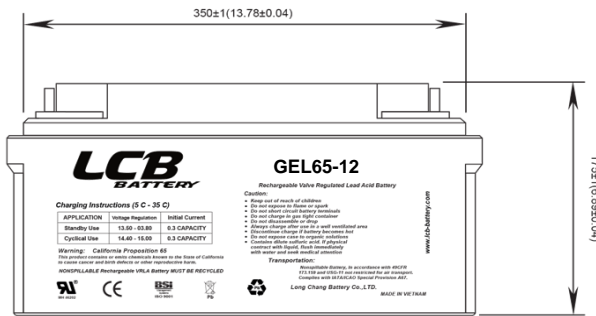
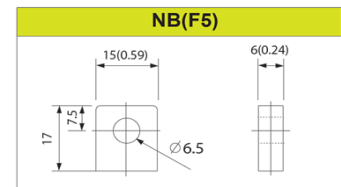
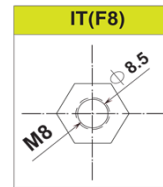
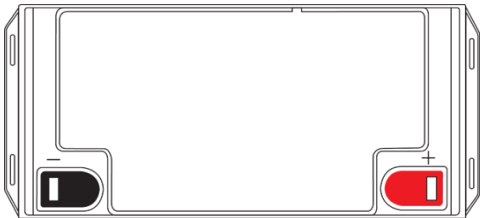
GEL series is specially designed for efficient discharges in cyclical applications under extreme environments. By using strong grids, high purity lead, premium AGM separators and Gel electrolyte. GEL series offers excellent recovery after deep discharge under frequent cyclic discharge use. Cycle life more than 600 times with 60% DOD, suitable for solar, CATV, marine, and deep discharge UPS.

#### SPECIFICATION

Cell per unit	6	Ambient temperature
Nominal Voltage (V)	12	Charge 0°C(32°F) to 40°C (104°F)
Nominal Capacity (Ah)	65.6Ah @ 20hour rate F.V(1.75/Cell)	Discharge -15°C(5°F) to 55°C (131°F)
Weight	21,5 kg	Storage -15°C(5°F) to 40°C (104°F)
Internal Resistance (1KHz)	5,5mΩ	
Max Discharge Current (5s)	650A (5s)	
Design Life 25°C	12 years (standby)	
Terminal Type	NB(F14)/IT(F8)	
Container Material	ABS(Option : 94-HB & 94V-0 flame retardant case)	



DIMENSIONS	Length	Width	Height	Total Height
Unit: mm	350±1	167±1	175±1	175±1
Unit: inch	13.78±0.04	6.57±0.04	6.89±0.04	6.89±0.04



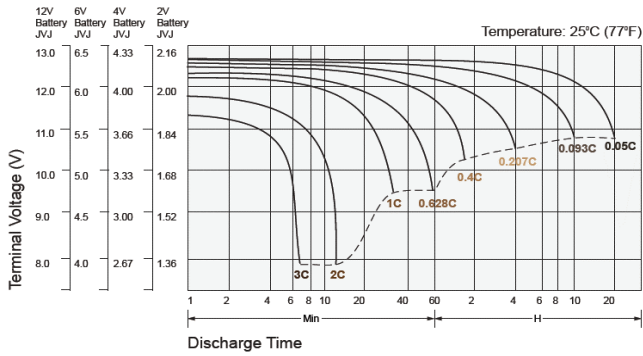
#### Constant current discharge characteristics Unit:A(25°C77°F)

F.V/Time	5MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	8HR	10HR	20HR
9,6V	243,0	111,0	68,0	40,0	27,2	16,6	11,8	8,10	6,60	3,40
10,02V	233,1	105,0	67,0	39,0	26,0	16,2	11,6	8,00	6,58	3,38
10,2V	226,8	103,0	66,0	38,0	25,6	16,0	11,5	1,80	6,57	3,30
10,5V	203,4	98,0	64,5	37,2	24,4	15,8	11,4	7,50	6,53	3,28
10,8V	178,2	96,0	62,0	35,5	22,5	15,7	11,3	7,32	6,50	3,26

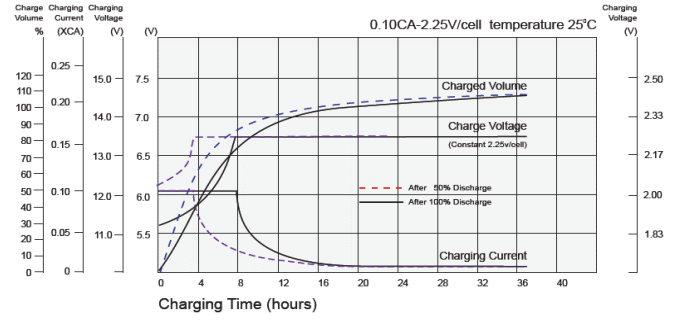
#### Constant power discharge characteristics Unit:W(25°C77°F)

F.V/Time	5MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	8HR	10HR	20HR
9,6V	2355,1	1193,2	741,0	513,0	251,4	200,5	136,2	93,0	75,79	39,88
10,02V	2176,5	1122,0	707,8	508,0	247,2	199,4	135,9	91,0	75,79	39,88
10,2V	2121,4	1097,3	693,5	504,0	242,4	198,0	135,4	90,8	75,64	39,80
10,5V	1969,4	1033,6	659,3	496,0	236,0	196,2	134,6	88,0	75,24	39,60
10,8V	1815,5	959,5	619,4	488,0	232,0	192,3	132,7	86,0	74,09	38,81

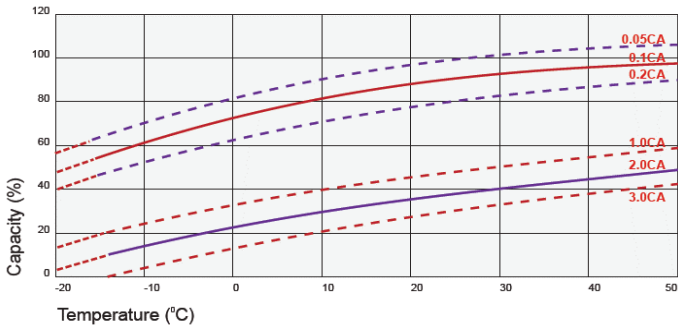
## Battery Discharge Characteristics (25°C/77°F)



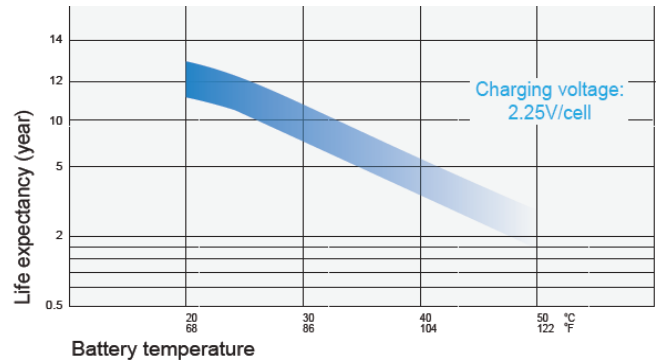
## Battery Charge Characteristic for standby use



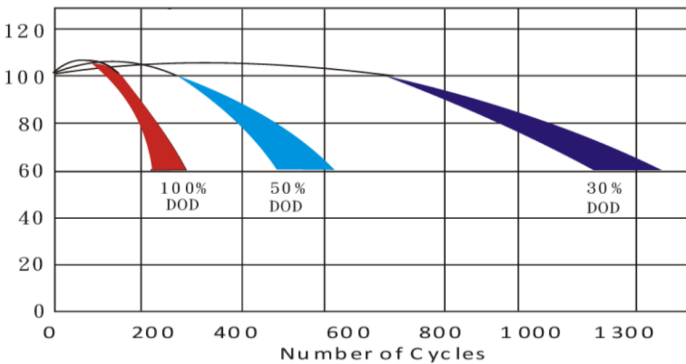
## Temperature Effects in Relation to Battery Capacity



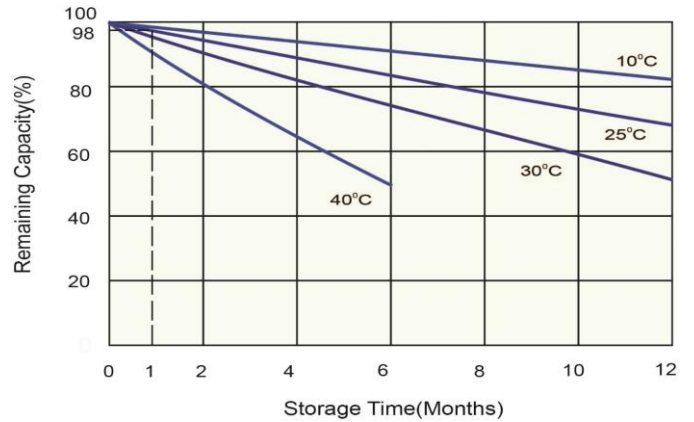
## Temperature Effects on Long Term Float Life



## Cycle Service Life



## Self Discharge Characteristics



## Charging Procedures

Application	Charge Voltage (V/cell)			Max. Charge Current (A)
	Temperature	Set point	Allowable Range	
Cycle use	25 degC	2.43	2.35 ~ 2.50	0.3 x C
Standby		2.3	2.25 ~ 2.35	

## Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/cell	1.75	1.70	1.65	1.60
Discharge Current (A)	0.2C > (A)	0.2C < (A)	0.5C < (A)	(A) > 1.0C
		< 0.5C	< 1.0C	

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