

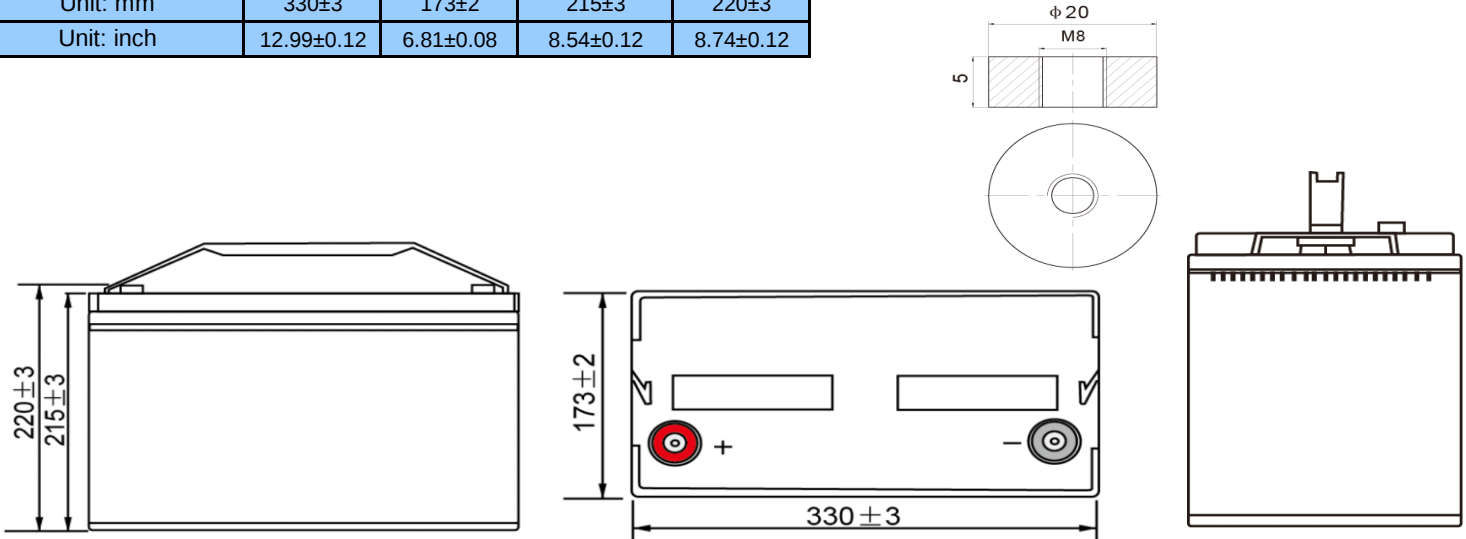
FEATURES

GEL series is specially designed for efficient discharges in cyclical applications under extreme environments. By using strong grids, high purity lead and Gel electrolyte, the 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. RV LCB batteries are rechargeable Seal Lead, highly efficient, leak proof and maintenance free.

SPECIFICATION

Cell per unit	6	Ambient temperature	  
Nominal Voltage (V)	12	Charge	
Nominal Capacity (Ah)	110Ah @ 20hour rate F.V(1.75/Cell)	Discharge	
Weight	~31.50kg(69.44Lbs.)	Storage	
Internal Resistance (1KHz)	≤ 4.5mΩ		
Max Discharge Current (5s)	1000A (5s)		
Battery Design Life (25°C)	12 years (standby)		
Terminal Type	IT(F8)/NB(F16)		
Container Material	ABS (Option : 94-HB & 94V-0 flame retardant case)		

DIMENSIONS	Length	Width	Height	Total Height
Unit: mm	330±3	173±2	215±3	220±3
Unit: inch	12.99±0.12	6.81±0.08	8.54±0.12	8.74±0.12



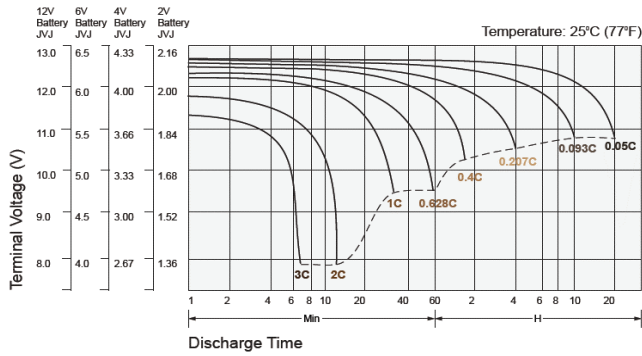
Constant current discharge characteristics Unit:A(25°C77°F)

F.V/Time	5MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	375,0	198,0	115,8	64,9	38,5	27,2	18,1	12,7	10,5	5,45
1.67V	346,0	185,6	103,0	61,5	36,4	26,1	17,8	12,6	10,3	5,4
1.70V	336,0	174,4	101,0	60,6	35,6	25,7	17,6	12,4	10,2	5,34
1.75V	305,0	162,0	92,1	56,5	32,5	24,8	17,2	12,2	10,1	5,29
1.80V	267,0	150,0	83,7	50,8	29,3	23,7	16,7	12,0	10,0	5,2

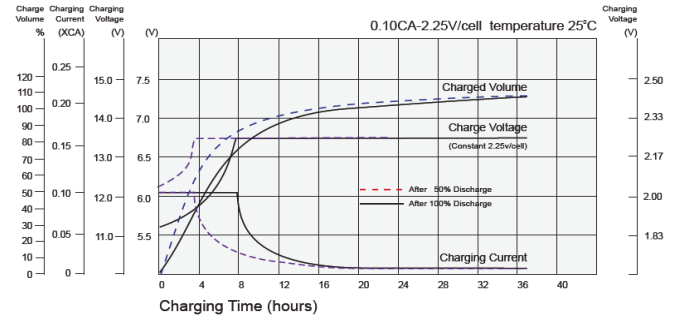
Constant power discharge characteristics Unit:W(25°C77°F)

F.V/Time	5MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	3894,0	2170,0	1236,0	758,0	463,0	331,0	215,4	148,8	131,0	69,1
1.67V	3503,0	2075,0	1167,0	738,0	447,0	318,0	211,8	147,6	127,0	67,7
1.70V	3284,4	2027,0	1161,6	731,0	441,0	313,0	208,8	145,8	125,0	66,0
1.75V	3292,0	1919,0	1095,0	714,0	432,0	311,0	205,8	144,0	120,0	62,7
1.80V	3071,0	1807,0	1041,0	696,0	417,0	298,0	201,6	142,2	113,5	64,3

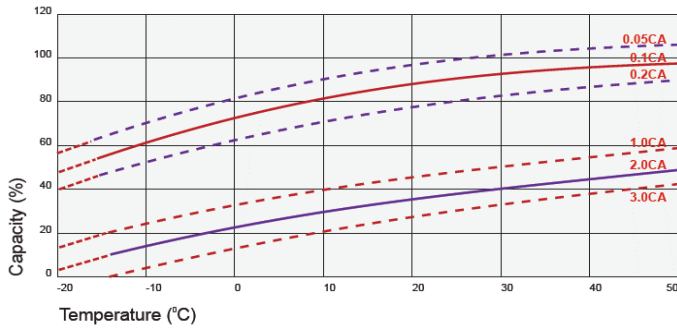
Battery Discharge Characteristics (25°C/77°F)



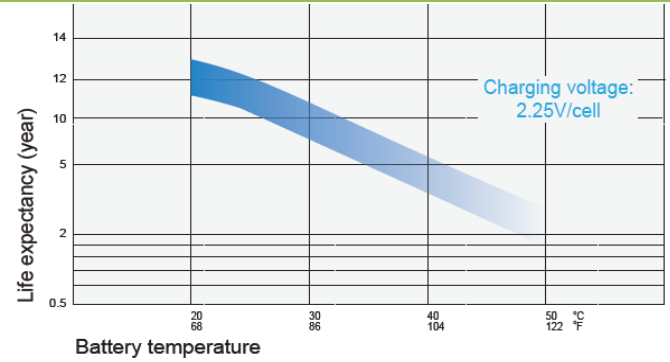
Battery Charge Characteristic for standby use



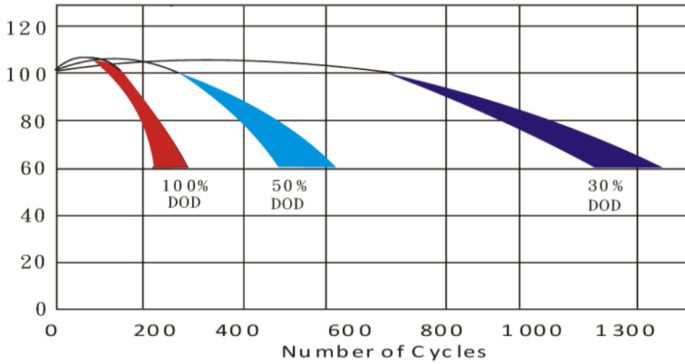
Temperature Effects in Relation to Battery Capacity



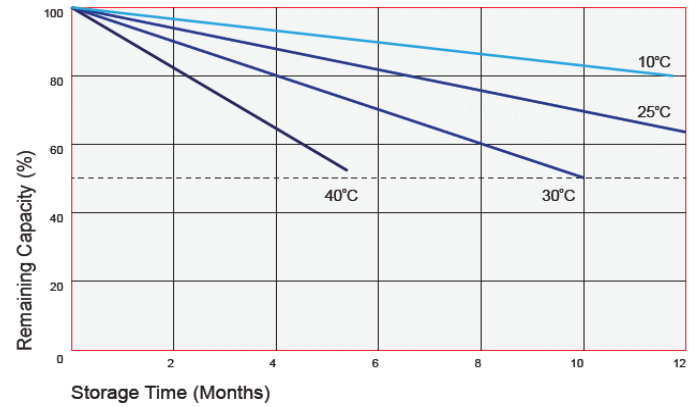
Temperature Effects on Long Term Float Life



Cycle Service Life



Self Discharge Characteristics



Charging Procedures

Application	Charge Voltage(V/cell)			Max. Charge Current
	Temperature	Set Point	Allowable Range	
Cycle Use	25°C(77°F)	2.45	2.40~2.50	0.25C
Standby	25°C(77°F)	2.275	2.25~2.30	

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	0.5C<(A) <1.0C	(A)>1.0C

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