

SV1250



FEATURES

- AGM maintenance-free lead-acid battery
- High-efficiency lead-calcium plates
- Construction of fiber-glass separators stabilizes temperature of electrolyte
- High-quality insulation of plates
- Safe system of internal pressure regulating valves
- Reduced self-discharge current
- Sealed construction
- Long cycle life both in float and cycle charge modes
- Quality of products is guaranteed by the control of the manufacturing process in accordance with the standards

SPECIFICATION

Nominal Voltage	12 V		
Nominal Capacity	5 A·h at 20Hr-rate to 1.75V/cell		
Approx. Weight	1.6 Kg		
Number of cells in battery	6		
Internal Resistance	27 mΩ (Fully Charged) at 25 °C		
Self-Discharge	Average 3% of capacity declined per month at 25 °C		
Operating Temp. Range	Discharge: -20 °C ~ 50 °C		
	Charge: -15 °C ~ 40 °C		
	Storage: -20 °C ~ 40 °C		
Max. Discharge Current	80 A (5 sec.)		
Capacity Affected by Temp.	40 °C	102%	
	25 °C	100%	
	0 °C	85%	
	-15 °C	65%	
Container Material	ABS plastic		

APPLICATION

**All Purpose
UPS
Signal Light
Alarm and Security System
DC Power Supply
Auto Control System**

APPLICABLE STANDARDS

**IEC61056-1/2
JIS C8702-2003
GB/T19639.1-2005**



CHARGE PROCEDURE

Application	Constant Voltage Charge (V/cell)			Max. Charge Current
	Temperature	Set Point	Allowable Range	
Cycle Use	25 °C	2.425	2.40~2.45	0.3C
Standby Use	25 °C	2.275	2.25~2.30	

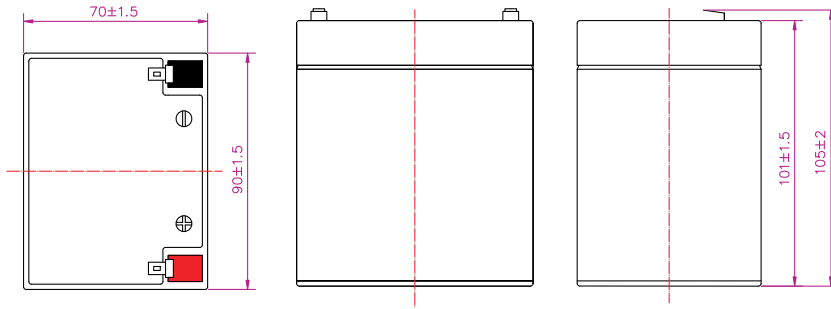
DISCHARGE CURRENT VS. DISCHARGE VOLTAGE

Final Discharge Voltage (V/cell)	1.75	1.70	1.60
Discharge Current (A)	0.2C>(A)	0.2C<(A)<1C	(A)>1C

Note: Temp. Compensation Coefficient of Charge Voltage,
Cycle use: -4mV/°C/cell, Standby Use: -3 mV/°C/cell

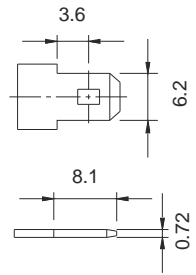
OUTER DIMENSION

- Length
90 ± 1.5
- Width
70 ± 1.5
- Height
101 ± 1.5
- Total height
105 ± 2.0



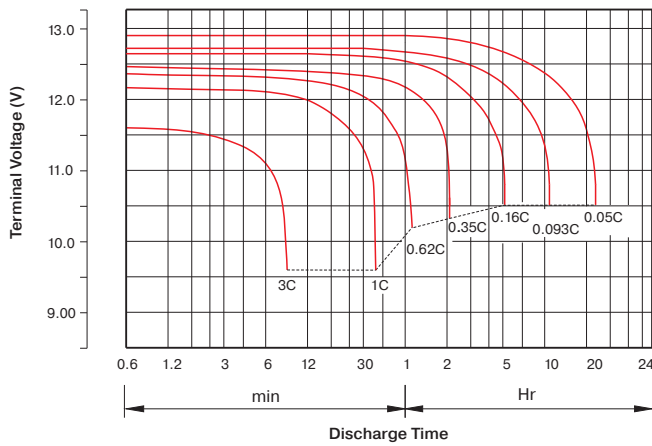
Terminal Type

- Terminal F1

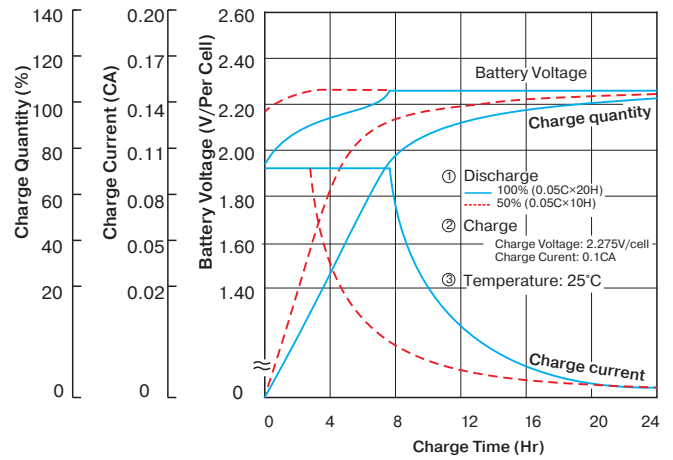


Unit: mm

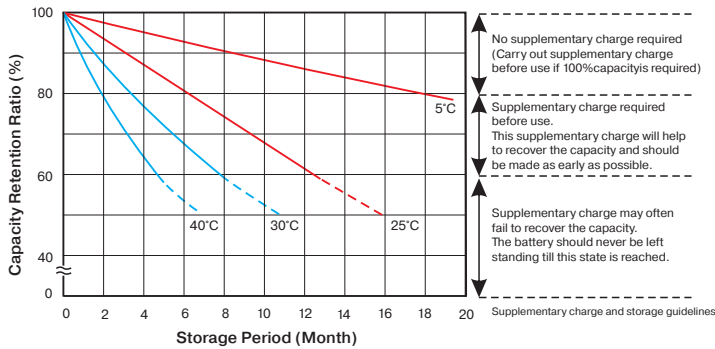
Discharge Characteristics at 25 °C



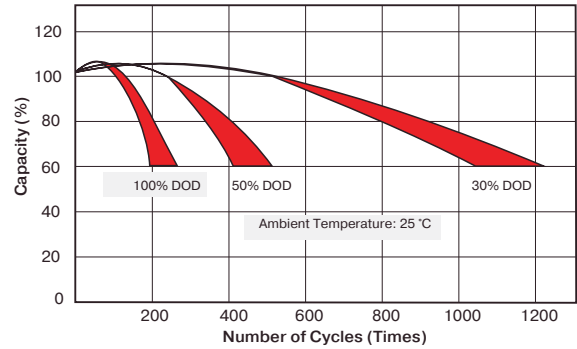
Charge characteristics (Standby use)



Capacity retention characteristics



Cycle Service life



Constant Current (CC, Unit: A) & Constant Power (CP, Unit: W) Discharge Table at 25 °C

F.V. (V/cell)	Time Model	5 Min	10 Min	15 Min	30 Min	1 Hr	2 Hr	3 Hr	4 Hr	5 Hr	8 Hr	10 Hr	20 Hr
		1.60	CC(A)	18	11.8	8.8	5.8	3	1.75	1.29	1.03	0.88	0.58
	CP(W)	212	133	101	61	35	20.3	14.9	11.96	10.15	6.69	5.48	3
1.70	CC(A)	16.5	11.3	8	5.5	2.8	1.68	1.25	1	0.86	0.57	0.46	0.25
	CP(W)	200	126	95	61	33	19.4	14.48	11.58	9.96	6.58	5.38	2.92
1.75	CC(A)	15	10.6	7.5	5.3	2.7	1.65	1.23	0.95	0.86	0.56	0.46	0.25
	CP(W)	193	123	91	60	32	19.1	14.23	11	9.9	6.52	5.33	2.9
1.80	CC(A)	14.4	10.1	7	5.1	2.6	1.6	1.21	0.93	0.81	0.55	0.45	0.24
	CP(W)	169	119	87	60	31	18.7	14.06	10.86	9.46	6.25	5.21	2.83
1.85	CC(A)	13.4	9.5	6.5	5	2.5	1.56	1.15	0.92	0.78	0.53	0.44	0.24
	CP(W)	164	115	83	59	30	18.5	13.65	10.83	9.25	6.04	5.10	2.81

Note: The above data are average values, and can be obtained with 3 charge/discharge cycles.