

AGM TECHNOLOGY  
ABT Sunwind SWM Series

## SWM2-1000

2V1000 Ah(10hr)



### High Performance

The ABT Sunwind SWM range of VRLA lead acid batteries have been designed specific for use in applications which demand the highest levels of security and reliability. With proven compliance to the most rigorous international standards.

Sunwind SWM is recognized as premium battery for Solar and wind energy system, Energy equilibrium system applications. Sunwind's reputation for long service life combined with excellent high cyclic performance also makes it the number one choice for high integrity.

### Mechanical Characteristics

	SI Unit	English Unit
Length	430mm	16.93inch
Width	173mm	6.81inch
Height	338mm	13.31inch
Total Height	347mm	13.66inch
Approx. Weight	59.5kg	131.18lbs
Type of material for box and lids : ABS Standard (FV0 Optional)		

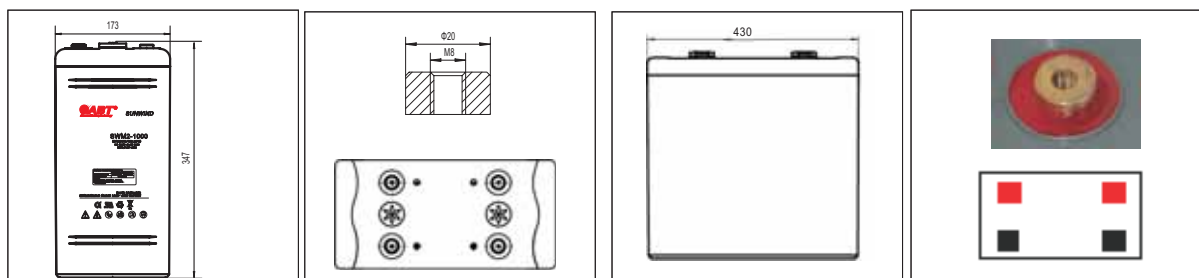
### Product Characteristics

- Thick Pb-Ca-Sn alloy grids designed to resist corrosion and prolong life
- Low resistance microporous glass fibre separator
- Low specific acid density
- Centralized venting system for gas ventilation
- Flame arrester to improve safety
- Pillar with brass insert where screwed an copper connector fitted with a bolt and stainless nut and washers
- Low Self Discharge rate:  $\leq 3\%$  (20°C) Monthly on average
- U. L. Components Recognition
- Design life 15 years

### Performance Characteristics

Nominal Voltage	2V
Number of Cell	2
Nominal Capacity 20°C (68°F)	10 hour rate (100A, 1.80V) 1000Ah 3 hour rate (250A, 1.80V) 750Ah 1 hour rate (550A, 1.75V) 550Ah
Intensity	
Max. Discharge Current	20°C (68°F) 5000A(5s)
Short circuit current	8600A
Maximum charge current	150(15% of rated capacity)
Internal Resistance	Fully Charged battery 20°C (68°F) 0.17mOhms
Mass Energy(Wh/kg)	33.61
Volume Energy(Wh/L)	79.54
Self-Discharge	3% of capacity declined per month at 20°C(average)
Operating Temperature Range	Discharge -20~60°C Charge -10~60°C Storage -20~60°C
Charge Methods:	Constant Voltage Charge 20°C (68°F) Cycle use 2.34-2.38V Temperature compensation -3.5mV/°C/unit Standby use 2.24-2.28V Temperature compensation -3.5mV/°C/unit
Terminal Type	Inserted Thread and bolt M8X $\phi$ 20
Torque strength in N m	12~16
Handle Type	No
Flame arrester	Yes

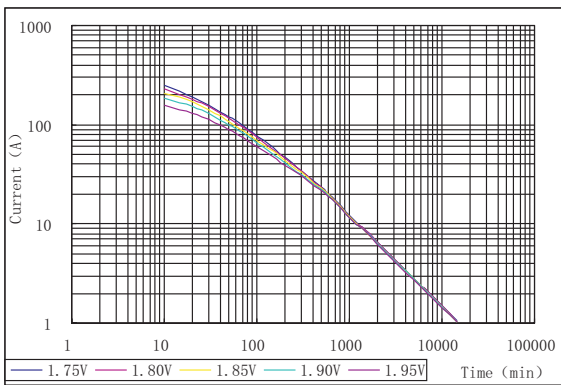
### Dimensions / Terminal



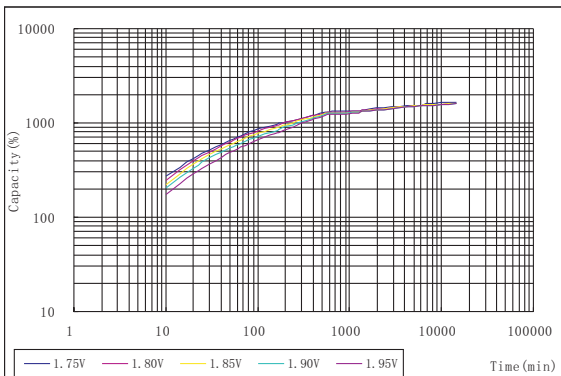
**Capacities C<sub>1</sub>-C<sub>120</sub> ( 20°C )**

C <sub>1</sub>	C <sub>3</sub>	C <sub>5</sub>	C <sub>10</sub>	C <sub>100</sub>	C <sub>120</sub>
1.75Vpc	1.80Vpc	1.80Vpc	1.80Vpc	1.85Vpc	1.85Vpc
550	750	850	1000	1180	1200

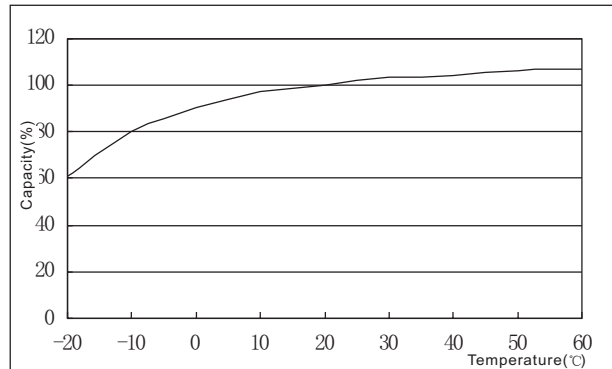
**Constant Current Discharge Curve**



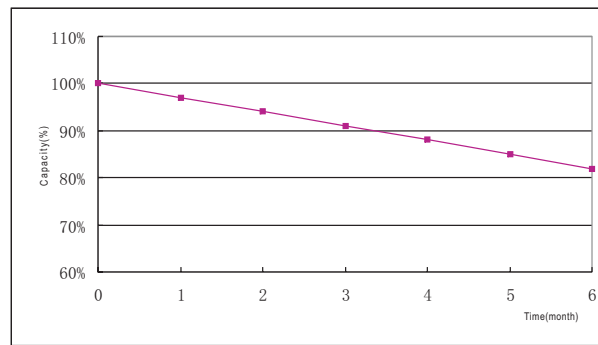
**Capacity Discharge Curve**



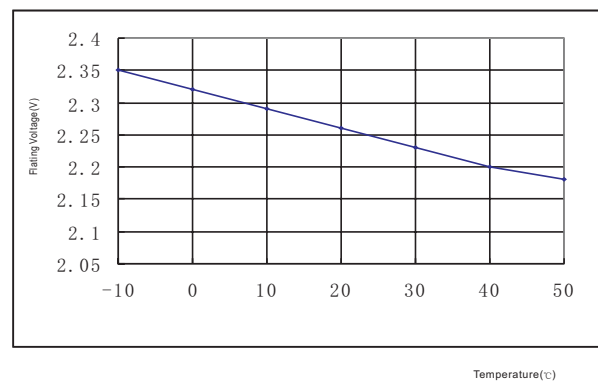
**Capacity Vs Temperature**



**Self Discharge**



**Floating Charge Voltage Vs Temperature**



**Contact information**

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ABT VRLA Battery: Available Power Range From 7Ah to 3000Ah

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