



AGM Technology  
 ABT Sunwind SWM Series

**Complying standards:**

IEC60896-21/22:2004  
 IEC61427:2014  
 BS EN61427:2005

**SWM2-500**

2V500Ah(10hr)



ABT Sunwind SWM range of VRLA lead acid batteries have been designed specifically 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 equipment 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	EN Unit
Length	188.5mm	7.42inch
Width	179mm	7.05inch
Height	367mm	14.45inch
Total Height	377mm	14.84inch
Approx. Weight	30.6kg	67.32lbs

Type of material for container and lids:

ABS Standard (FV0 Optional)

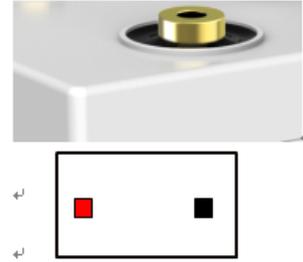
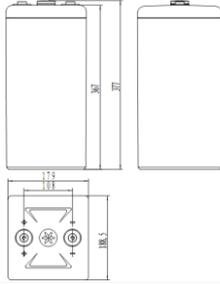
**Product Characteristics**

- 15 years life expectancy in float service at 68°F (20°C)
- EUROBAT Classification: Very long life;
- High discharge performance;
- 99%+ gas recombination efficiency;
- Maximum charge efficiency;
- Low self-discharge rate;
- Easy installation and handling;

**Performance Characteristics**

- Rated voltage: 2V (1 cell)
- Rated capacity at 68°F (20°C)
  - 1h rate (291A, 1.75V) 291Ah
  - 10h rate (50.0A, 1.80V) 500Ah
  - 100h rate (6.4A, 1.85V) 640Ah
- Internal resistance:
  - 0.29mΩ when fully charged at 68°F (20°C)
- Average self-discharge rate:
  - ≤1.5% per month 68°F (20°C)
- Maximum discharge current:
  - 1750A(5s) at 68°F (20°C)
- Working temperature range:
  - Discharge: -15~45°C
  - Charge: -10~45°C
  - Storage: -20~60°C
- Charging method:
  - with constant voltage at 68°F (20°C)
  - Maximum charge current: 160A
  - Temperature compensation: -3.5mV/°C/piece
  - Cycle use: 2.37 V/ piece
  - Standby use: 2.27 V/ piece

**Dimensions/Terminal**



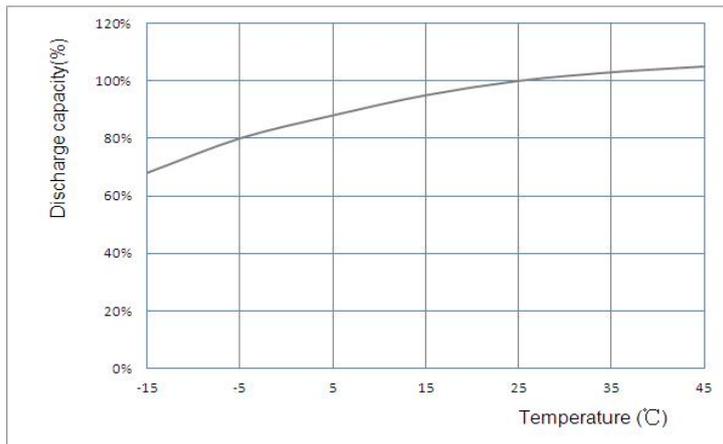
**Constant Current Discharge Data (Ampere at 20°C/68 °F)**

End Volt	30min	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	24hr	48hr	100hr
1.75	416	291	180	134	112	91.6	80.8	64.4	53.6	23.8	12.5	6.8
1.80	399	280	175	132	111	90.6	79.8	63.7	50.0	23.6	12.0	6.7
1.85	374	255	171	129	108	88.7	78.6	62.4	48.6	23.3	11.6	6.4
1.88	320	215	164	109	95.6	82.8	77.8	56.0	46.0	21.0	10.7	5.9
1.90	280	200	154	104	92.6	81.8	77.3	55.1	45.0	20.0	10.4	5.8

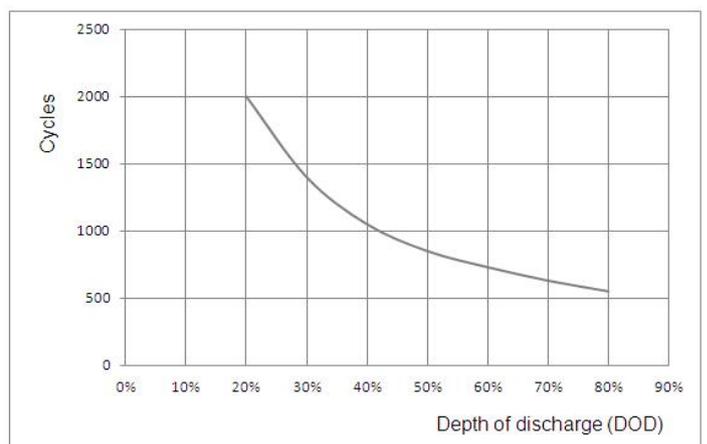
**Constant Power Discharge Data (Watts per cell at 20°C/68 °F)**

End Volt	30min	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	24hr	48hr	100hr
1.75	756	531	351	260	186	178	159	130	108	46.5	24.5	12.7
1.80	708	513	340	254	177	175	157	129	106	45.1	23.7	12.4
1.85	663	463	298	230	163	165	153	118	100	43.0	22.3	12.0
1.88	591	423	276	221	155	156	150	116	96.6	42.1	21.4	11.7
1.90	511	362	254	185	146	145	146	111	92.6	40.5	20.4	11.2

**Capacity vs. Temperature**



**DOD vs. Cycles**



Contact information

Advanced Battery Technology BV  
 Add. New Yorkstraat 14 1175 RD Lijnden Amsterdam, Netherland  
 Web: <http://www.abtbatt.com> Email: sales@abtbatt.com

**ABT VRLA Battery: Available power range from 26Ah to 3000Ah.**

Copy right ABT BV,  
 all rights reserved.  
 (Edition: Feb., 2021)