



AGM Technology  
 ABT Sunwind SWM Series

**Complying standards:**

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

**SWM2-400**

2V400Ah(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	155.5mm	6.12inch
Width	179mm	7.05inch
Height	367mm	14.45inch
Total Height	377mm	14.84inch
Approx. Weight	25.1kg	55.22lbs

Type of material for container and lids:

ABS Standard (FV0 Optional)

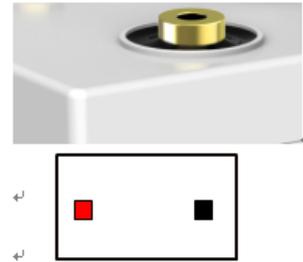
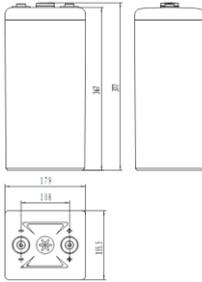
**Product Characteristics**

- 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 (232A, 1.75V) 232Ah
  - 10h rate (40.0A, 1.80V) 400Ah
  - 100h rate (5.1A, 1.85V) 510Ah
- Internal resistance:
  - 0.35mΩ when fully charged at 68°F (20°C)
- Average self-discharge rate:
  - ≤1.5% per month 68°F (20°C)
- Maximum discharge current:
  - 1400A(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: 128A
  - Temperature compensation: -3.5mV/°C/piece
  - Cycle use: 2.37 V/ piece
  - Standby use: 2.27 V/ piece

**Dimensions/Terminal**



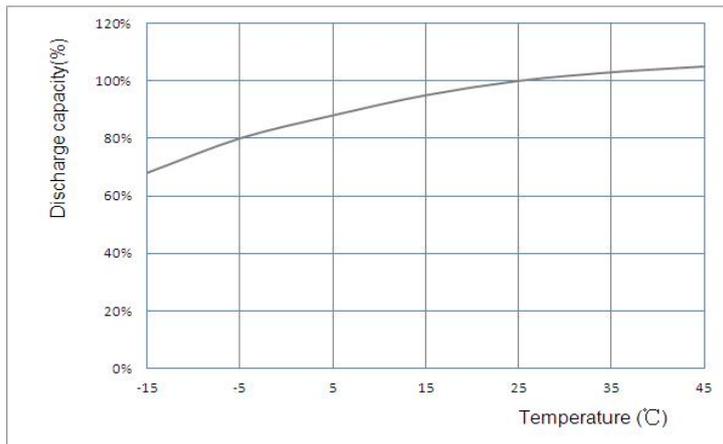
**Constant Current Discharge Data (Ampere at 20°C/68 °F)**

End Volt	30min	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	24hr	48hr	100hr
1.75	333	232	145	107	89.7	72.9	64.6	51.5	42.9	19.1	10.0	5.5
1.80	319	225	141	105	88.7	72.9	63.7	50.9	40.0	18.9	9.6	5.4
1.85	300	204	138	102	86.7	70.9	62.9	49.9	38.8	18.7	9.3	5.1
1.88	256	171	130	87.7	76.8	66.0	62.4	44.7	36.7	16.7	8.6	4.8
1.90	225	161	122	83.7	74.9	65.0	62.0	43.9	36.1	16.1	8.4	4.7

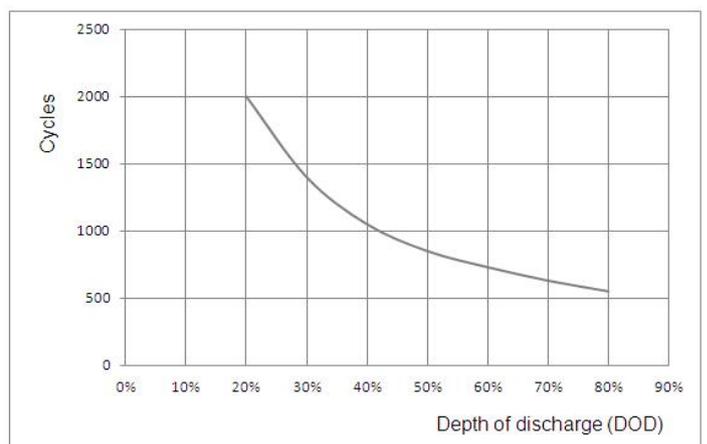
**Constant Power Discharge Data (Watts per cell at 20°C/68 °F)**

End Volt	30min	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	24hr	48hr	100hr
1.75	604	426	280	208	149	143	126	103	86.7	42.7	19.7	10.1
1.80	567	411	272	203	142	141	124	102	85.7	42.3	19.0	9.9
1.85	530	369	237	184	130	132	122	93.6	79.8	34.4	17.7	9.6
1.88	473	338	222	175	123	124	119	92.6	77.8	33.6	17.0	9.4
1.90	410	290	203	148	117	115	117	89.7	73.9	32.4	16.4	9.0

**Capacity vs. Temperature**



**DOD vs. Cycles**



Contact information

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

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