



AGM Technology
 ABT Sunwind SWM Series

Complying standards:

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

SWM2-300

2V300Ah(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	122.5mm	4.82inch
Width	179mm	7.05inch
Height	367mm	14.45inch
Total Height	377mm	14.84inch
Approx. Weight	19.4kg	42.68lbs

Type of material for container and lids:

ABS Standard (FV0 Optional)

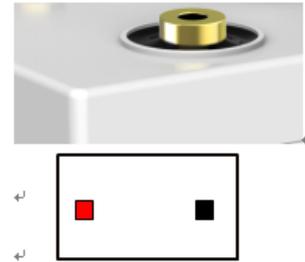
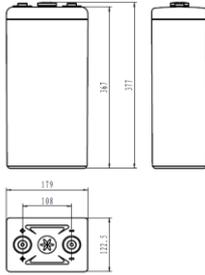
Product Characteristics

- 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 (165A, 1.75V) 165Ah
 - 10h rate (30.0A, 1.80V) 300Ah
 - 100h rate (3.9A, 1.85V) 390Ah
- Internal resistance:
 - 0.38mΩ when fully charged at 68°F (20°C)
- Average self-discharge rate:
 - ≤1.5% per month 68°F (20°C)
- Maximum discharge current:
 - 1050A(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: 96A
 - Temperature compensation: -3.5mV/°C/piece
 - Cycle use: 2.37 V/ piece
 - Standby use: 2.27 V/ piece

Dimensions/Terminal



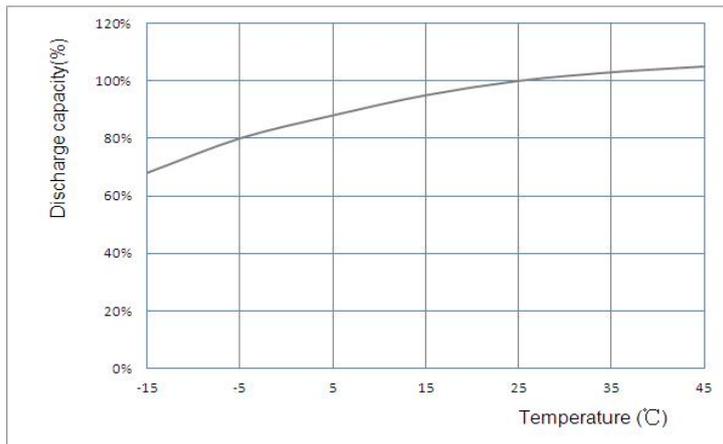
Constant Current Discharge Data (Ampere at 20°C/68 °F)

End Volt	30min	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	24hr	48hr	100hr
1.75	238	165	103	77.3	65.1	52.8	45.7	36.4	30.3	13.4	7.5	4.1
1.80	230	161	101	76.3	64.2	52.2	45.1	36.1	30.0	13.3	7.2	4.0
1.85	219	148	99.5	75.2	63.3	51.5	44.2	35.3	29.2	13.1	7.0	3.9
1.88	192	129	98.5	66.0	57.7	49.5	46.7	33.6	27.6	12.6	6.5	3.6
1.90	167	120	91.6	63.0	56.0	49.0	46.4	33.0	27.0	12.0	6.3	3.5

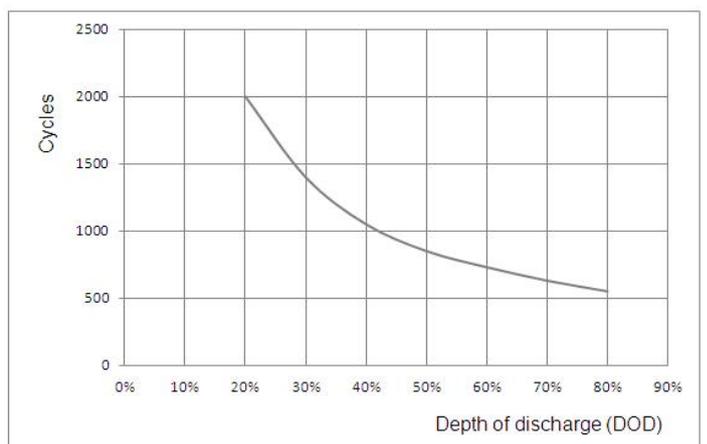
Constant Power Discharge Data (Watts per cell at 20°C/68 °F)

End Volt	30min	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	24hr	48hr	100hr
1.75	402	283	186	141	111	96.9	86.0	70.9	59.1	29.0	14.0	7.2
1.80	377	274	180	138	117	96.0	85.0	70.0	58.4	28.7	13.6	7.1
1.85	355	246	160	125	97.0	90.0	83.0	63.9	54.3	27.3	12.7	6.8
1.88	314	226	147	120	92.0	83.9	81.0	63.0	52.7	26.7	12.2	6.7
1.90	273	193	135	100	88.0	78.8	79.0	61.0	50.4	25.7	11.5	6.4

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)