



AGM Technology
 ABT Sunwind SWM Series

Complying standards:

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

SWM2-1000

2V1000Ah(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	369mm	14.53inch
Width	180mm	7.09inch
Height	367.5mm	14.47inch
Total Height	377.5mm	14.86inch
Approx. Weight	60.9kg	133.98lbs

Type of material for container and lids:

ABS Standard (FV0 Optional)

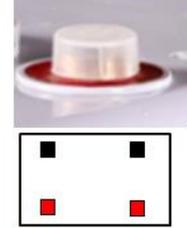
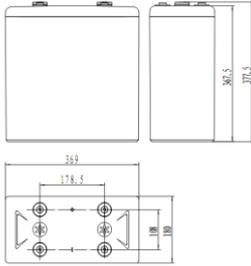
Product Characteristics

- 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 (581A, 1.75V) 581Ah
 - 10h rate (100.0A, 1.80V) 1000Ah
 - 100h rate (12.8A, 1.85V) 1280Ah
- Internal resistance:
 - 0.29mΩ when fully charged at 68°F (20°C)
- Average self-discharge rate:
 - ≤1% per month 68°F (20°C)
- Maximum discharge current:
 - 3500A(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: 320A
 - Temperature compensation: -3.5mV/°C/piece
 - Cycle use: 2.37 V/ piece
 - Standby use: 2.27 V/ piece

Dimensions/Terminal



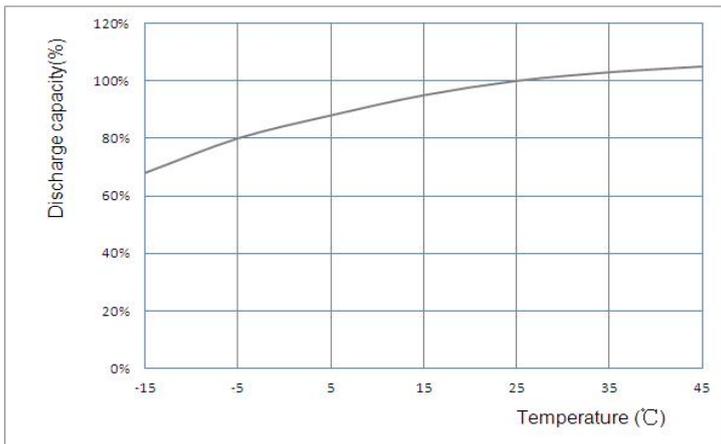
Constant Current Discharge Data (Ampere at 20°C/68 °F)

End Volt	30min	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	24hr	48hr	100hr
1.75	832	581	361	268	225	183	162	129	107	47.7	25.0	13.6
1.80	798	560	351	264	223	181	160	127	100	47.3	24.0	13.4
1.85	749	510	343	258	217	177	157	125	97.1	46.7	23.3	12.8
1.88	640	430	327	219	191	166	156	112	92.0	42.0	21.5	11.8
1.90	560	400	307	209	185	164	155	110	90.0	40.0	20.9	11.6

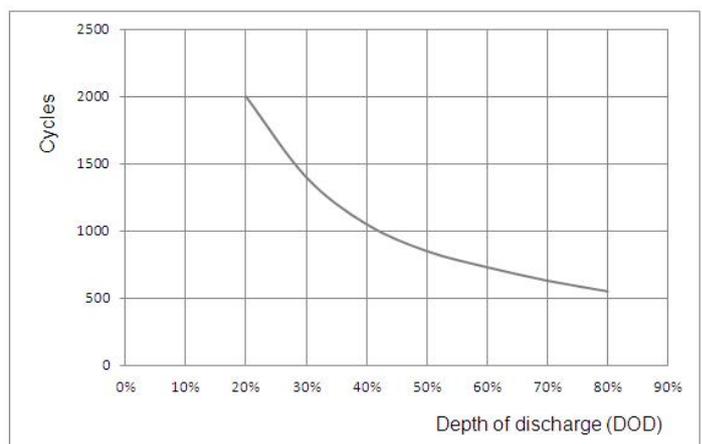
Constant Power Discharge Data (Watts per cell at 20°C/68 °F)

End Volt	30min	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	24hr	48hr	100hr
1.75	1511	1062	701	520	372	357	317	260	217	93.0	49.1	25.4
1.80	1417	1027	680	508	355	351	313	258	213	90.2	47.5	24.8
1.85	1326	926	595	459	325	329	305	236	199	85.9	44.5	24.0
1.88	1182	845	552	441	309	311	300	233	193	84.1	42.8	23.4
1.90	1023	723	508	370	292	290	292	223	185	81.0	40.8	22.5

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 7Ah to 3000Ah.

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