



AGM Technology
 ABT PowerLine SGP Series

Complying standards:

IEC61056-21/22:2002
 JIS C8702-1/2-2009

SGP12-100

12V100Ah(10hr)



ABT PowerLine SGP series is a general purpose battery according to Eurobat Classification with 10 years design life for standby application. As with all ABT batteries, all are rechargeable, highly efficient, leakage proof and maintenance free.

Mechanical Characteristics

Performance Characteristics

	SI Unit	EN Unit
Length	330mm	12.99inch
Width	174mm	6.85inch
Height	216.5mm	8.52inch
Total Height	224mm	8.82inch
Approx. Weight	27.6kg	60.72lbs

- Rated voltage: 12V (6 cells)
- Rated capacity at 68°F(20°C)
 - 20h rate (5.15A, 10.8V) 103Ah
 - 10h rate(10A, 10.8V) 100Ah
 - 1h rate(55A, 10.5V) 55Ah
- Internal resistance:
 - 4.9mΩ when fully charged at 68°F(20°C)
- Average self-discharge rate:
 - ≤2% per month 68°F(20°C)
- Maximum discharge current:
 - 1000A(5s) at 68°F(20°C)
- Working temperature range:
 - Discharge: -15~45°C
 - Charge: -10~45°C
 - Storage: -20~55°C
- Charging method:
 - with constant voltage at 68°F(20°C)
 - Maximum charge current: 30A
 - Temperature compensation: -21mV/°C/piece
 - Cycle use: 14.52 V/ piece
 - Standby use: 13.74 V/ piece

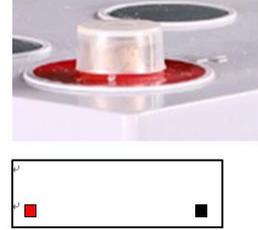
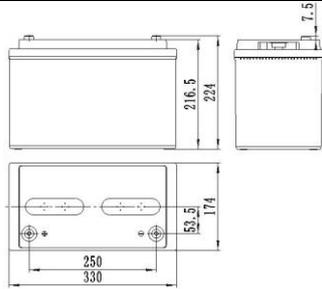
Type of material for container and lids:

ABS Standard (FV0 Optional)

Product Characteristics

- 10 years life expectancy in float service at 68°F(20°C)
- High specific energy
- Good cycling performance and over-discharging recovery performance
- Low rate of self-discharge : ≤2% monthly on average (20°C)
- Usable for vertical or horizontal
- Easy installation and handling
- Safety and reliable leakage-proof performance

Dimensions/Terminal



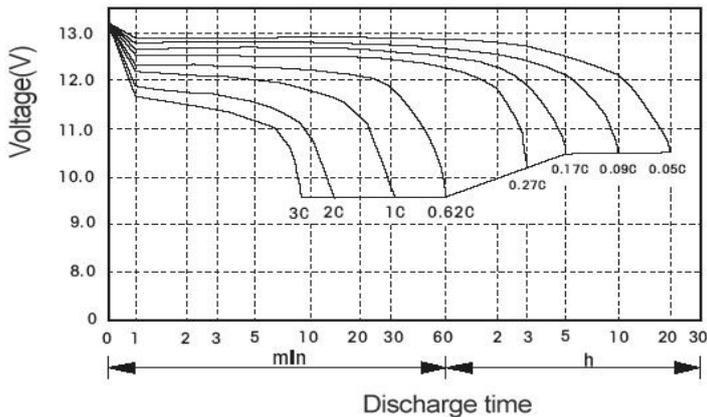
Constant Current Discharge Data (Ampere at 20°C/68 °F)

End Volt	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	5h	10h	20h
1.60	209	168	138	102	74.4	59.0	44.0	34.7	26.6	17.6	10.5	5.35
1.65	200	163	134	99.5	72.5	57.6	43.3	34.3	26.3	17.4	10.4	5.30
1.70	190	157	130	96.7	70.7	56.2	42.4	33.7	26.0	17.2	10.3	5.25
1.75	176	151	126	93.9	68.8	55.0	41.9	32.8	25.5	17.0	10.2	5.20
1.80	161	143	120	90.2	67.4	53.0	40.5	32.1	25.0	16.6	10.0	5.15

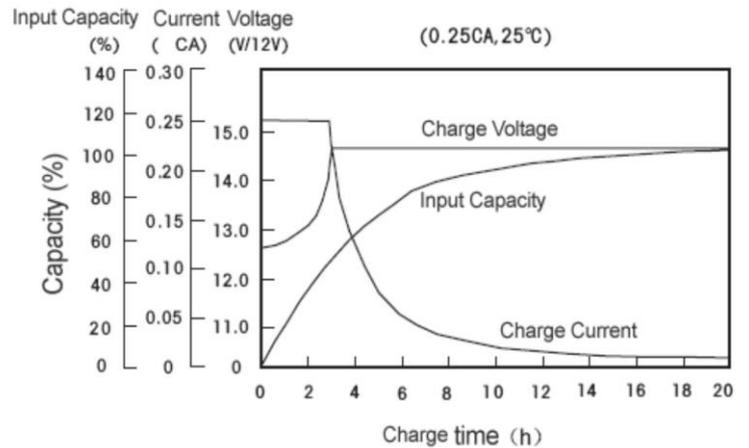
Constant Power Discharge Data (Watts per cell at 20°C/68 °F)

End Volt	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	5h	10h	20h
1.60	375	316	259	196	145	112	84.5	66.9	50.1	33.3	20.5	10.5
1.65	364	310	253	193	142	111	83.6	66.4	49.8	33.1	20.3	10.4
1.70	338	302	248	189	139	109	82.7	65.7	49.3	32.9	20.1	10.3
1.75	317	282	241	184	136	107	81.7	65.0	48.9	32.6	19.9	10.2
1.80	293	268	231	179	133	104	80.2	63.8	48.1	32.3	19.6	10.1

Discharge curve under different discharge rate



Charge capacity vs. charge time



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.

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