



AGM Technology
ABT PowerLine SGP Series

Complying standards:

IEC61056-21/22:2002

JIS C8702-1/2-2009

SGP12-80

12V80Ah(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

	SI Unit	EN Unit
Length	350mm	13.78inch
Width	167mm	6.57inch
Height	178.5mm	7.03inch
Total Height	179.5mm	7.07inch
Approx. Weight	23.2kg	51.04lbs

Type of material for container and lids:

ABS Standard (FV0 Optional)

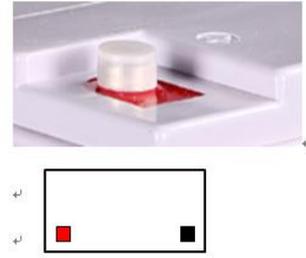
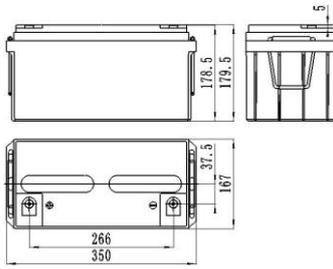
Product Characteristics

- 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

Performance Characteristics

- Rated voltage: 12V (6 cells)
- Rated capacity at 68°F (20°C)
 - 20h rate (4.11A, 10.8V) 82.2Ah
 - 10h rate(8A, 10.8V) 80.0Ah
 - 1h rate(44.0A, 10.5V) 44.0Ah
- Internal resistance:
 - 5.0mΩ when fully charged at 68°F (20°C)
- Average self-discharge rate:
 - ≤2% per month 68°F (20°C)
- Maximum discharge current:
 - 960A(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: 24A
 - Temperature compensation: -21mV/°C/piece
 - Cycle use: 14.52 V/ piece
 - Standby use: 13.74 V/ piece

Dimensions/Terminal



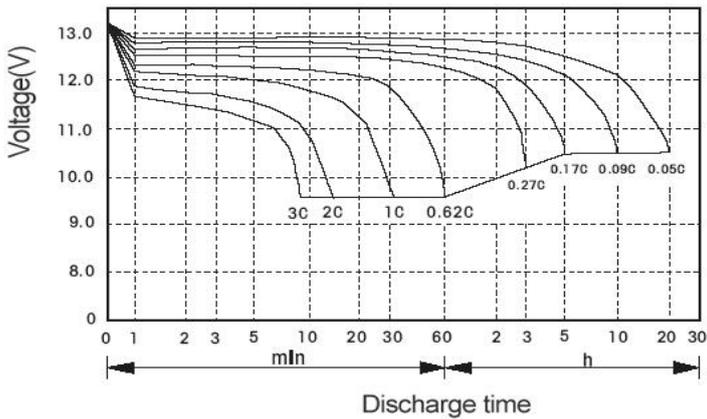
Constant Current Discharge Data (Ampere at 20°C/68 °F)

End Volt	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	5h	10h	20h
1.60	181.0	137.0	110.0	82.60	61.80	46.51	36.42	29.18	20.75	13.74	8.270	4.240
1.65	176.0	133.0	108.0	81.10	60.70	45.70	36.12	28.95	20.56	13.66	8.210	4.220
1.70	166.7	129.2	105.3	80.00	59.80	45.10	35.82	28.75	20.38	13.57	8.160	4.200
1.75	157.0	124.7	102.4	78.10	58.40	44.00	35.45	28.50	20.23	13.50	8.080	4.160
1.80	146.0	120.0	98.50	75.30	56.50	42.80	34.82	28.14	20.00	13.41	8.000	4.110

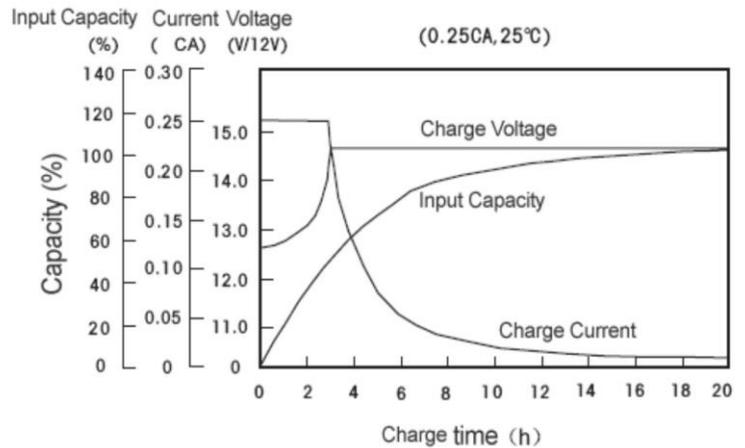
Constant Power Discharge Data (Watts per cell at 20°C/68 °F)

End Volt	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	5h	10h	20h
1.60	320.0	248.0	203.3	150.6	114.2	86.30	69.36	55.50	39.57	26.48	16.18	8.250
1.65	315.0	246.0	199.9	148.8	112.2	85.34	68.69	55.07	39.36	26.34	16.04	8.200
1.70	307.0	242.0	196.3	147.3	110.8	84.18	68.30	54.65	39.21	26.25	15.92	8.170
1.75	289.0	234.0	193.1	145.1	109.1	82.95	67.69	53.99	38.98	26.13	15.77	8.140
1.80	269.0	224.0	187.3	141.2	106.9	81.16	66.90	53.23	38.66	25.98	15.60	8.070

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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