



AGM Technology
 ABT PowerLine SGP Series

Complying standards:

IEC61056-21/22:2002

JIS C8702-1/2-2009

SGP12-150

12V150Ah(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	483mm	19.02inch
Width	171mm	6.73inch
Height	218.5mm	8.60inch
Total Height	223.5mm	8.80inch
Approx. Weight	40.8kg	89.76lbs

Type of material for container and lids:

ABS Standard (FV0 Optional)

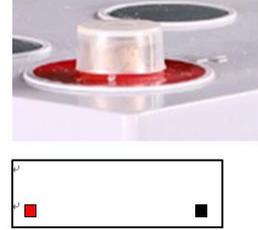
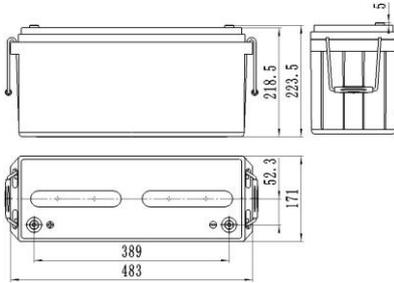
Product Characteristics

- 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 (7.6A, 10.8V) 152Ah
 - 10h rate(15.0A, 10.8V) 150Ah
 - 1h rate(82.5A, 10.5V) 82.5Ah
- Internal resistance:
 - 3.3mΩ when fully charged at 68°F (20°C)
- Average self-discharge rate:
 - ≤2% per month 68°F (20°C)
- Maximum discharge current:
 - 1500A(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: 45A
 - Temperature compensation: -21mV/°C/piece
 - Cycle use: 14.52 V/ piece
 - Standby use: 13.74 V/ piece

Dimensions/Terminal



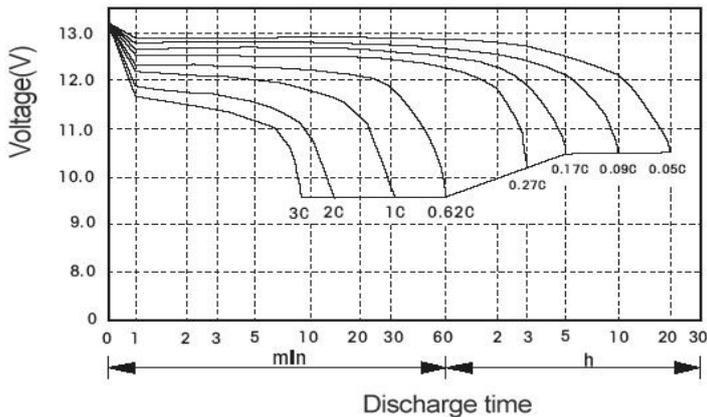
Constant Current Discharge Data (Ampere at 20°C/68 °F)

End Volt	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	5h	10h	20h
1.60	307	235	177	140	110	88.4	65.8	52.1	40.8	26.3	15.5	7.85
1.65	300	229	172	136	106	86.4	64.3	50.9	40.3	26.1	15.4	7.80
1.70	289	222	166	130	103	84.0	62.6	49.6	39.5	25.9	15.3	7.75
1.75	273	213	161	126	99.6	82.5	61.0	48.6	38.6	25.5	15.2	7.70
1.80	253	200	152	121	95.7	76.0	59.5	47.3	37.5	24.9	15.0	7.60

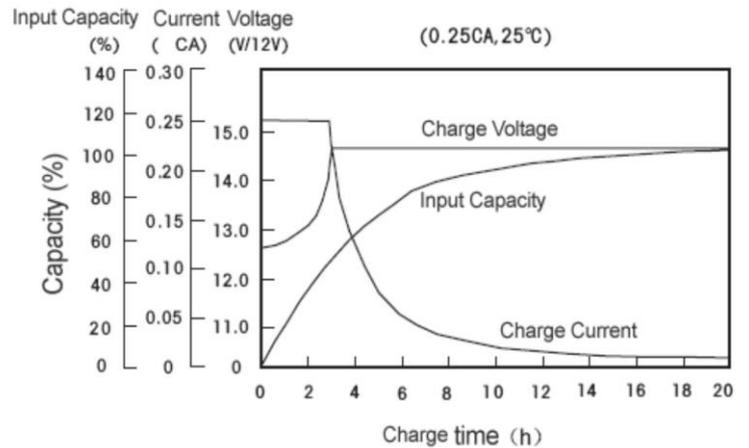
Constant Power Discharge Data (Watts per cell at 20°C/68 °F)

End Volt	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	5h	10h	20h
1.60	538	433	330	264	198	160	128	100	76.8	49.5	28.9	15.0
1.65	525	422	321	257	193	157	125	98.9	76.1	49.0	28.7	14.9
1.70	508	407	312	250	189	155	124	97.6	75.4	48.6	28.6	14.8
1.75	484	392	301	242	185	151	122	96.0	74.7	48.1	28.5	14.7
1.80	433	372	288	234	180	146	118	94.6	73.6	47.5	27.2	14.5

Discharge curve under different discharge rate



Charge capacity vs. charge time



Contact information

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

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