



AGM Technology
ABT PowerLine SGP Series

Complying standards:

IEC61056-21/22:2002

JIS C8702-1/2-2009

SGP12-250

12V250Ah(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	534mm	21.02inch
Width	271mm	10.67inch
Height	225mm	8.86inch
Total Height	233mm	9.17inch
Approx. Weight	71.0kg	156.2lbs

- Rated voltage: 12V (6 cells)
- Rated capacity at 68°F(20°C)
 - 20h rate (12.9A, 10.8V) 258Ah
 - 10h rate(25.0A, 10.8V) 250Ah
 - 1h rate(137.5A, 10.5V) 137.5Ah

Type of material for container and lids:

- Internal resistance:
 - 2.5mΩ when fully charged at 68°F(20°C)

ABS Standard (FV0 Optional)

Product Characteristics

- Average self-discharge rate:
 - ≤2% per month 68°F(20°C)

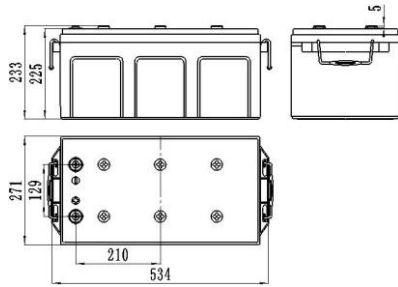
- 10 years life expectancy in float service at 68°F (20°C)
- High specific energy
- Good cycling performance and over-discharging recovery performance
- Low rate of self-discharge : ≤2% monthly on average (20°C)
- Usable for vertical or horizontal
- Easy installation and handling
- Safety and reliable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

- Maximum discharge current:
 - 1960A(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: 75A
 - Temperature compensation: -21mV/°C/piece
 - Cycle use: 14.52 V/ piece
 - Standby use: 13.74 V/ piece

Dimensions/Terminal



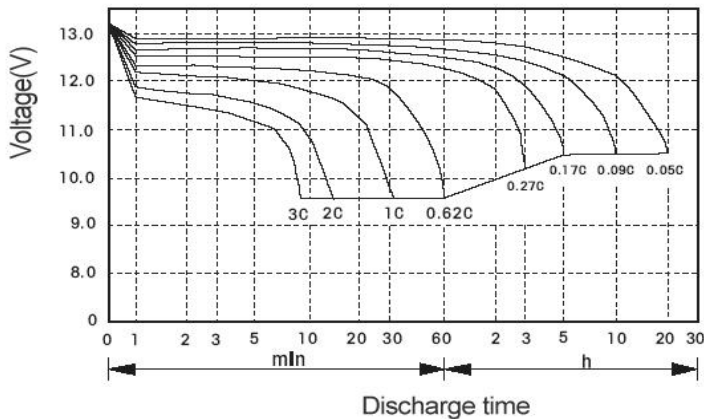
Constant Current Discharge Data (Ampere at 20°C/68 °F)

End Volt	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	5h	10h	20h
1.60	500.0	390.0	314.0	246.0	190.0	148.5	116.0	89.00	65.10	42.90	25.70	13.25
1.65	487.0	379.0	307.0	240.0	186.0	145.5	114.0	88.00	64.60	42.50	25.55	13.18
1.70	470.0	367.0	298.0	232.0	180.0	142.5	111.0	86.00	64.00	42.05	25.40	13.09
1.75	450.0	353.0	287.0	223.0	174.0	137.5	107.0	83.00	63.30	41.65	25.26	13.00
1.80	425.0	332.0	270.0	210.0	167.0	131.5	103.0	80.00	62.50	41.20	25.00	12.90

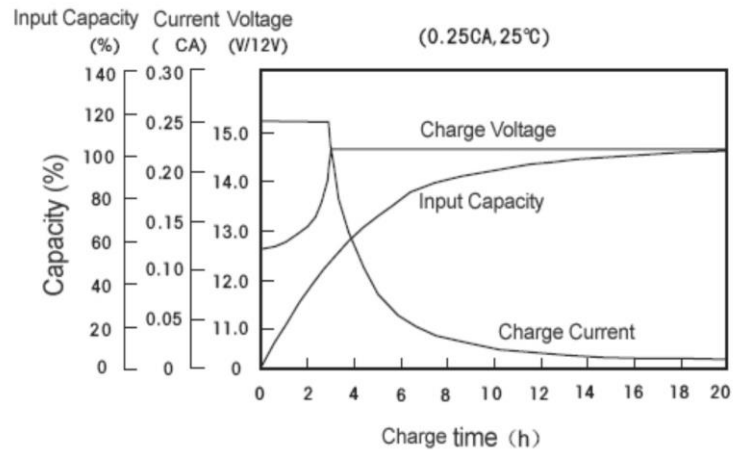
Constant Power Discharge Data (Watts per cell at 20°C/68 °F)

End Volt	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	5h	10h	20h
1.60	853.0	690.0	560.0	450.0	350.0	265.0	207.0	162.0	126.0	80.40	49.47	25.76
1.65	833.0	671.0	548.0	440.0	343.0	260.0	205.0	161.0	125.0	79.50	49.38	25.70
1.70	805.0	653.0	534.0	427.0	334.0	255.0	202.0	159.0	124.1	78.70	49.26	25.63
1.75	775.0	631.0	516.0	412.0	321.0	247.0	199.0	157.0	123.1	77.60	49.13	25.56
1.80	730.0	605.0	495.0	397.0	309.0	237.0	195.0	155.0	121.8	76.30	48.90	25.43

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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