BRIGHT WAY GROUP

POWERING PERFORMANCE

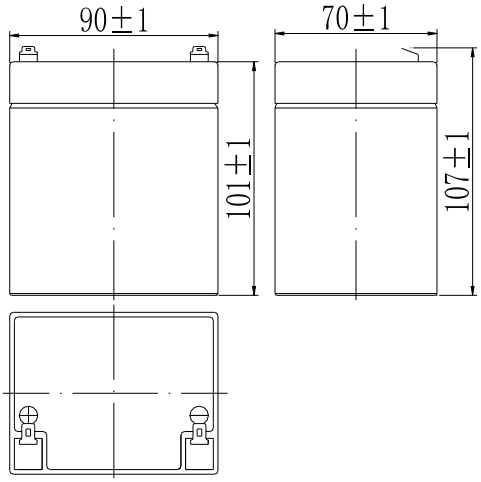
469.248.0380 | batterysales@bwgllc.com

BW 1250(12V5Ah)

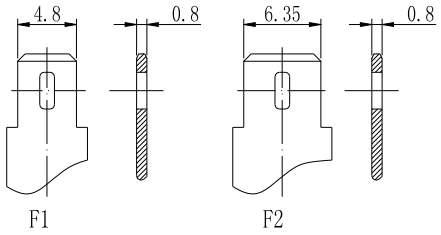
SPECIFICATIONS

Nominal Voltage		12 V
Capacity (25℃)	20HR	5Ah
	10HR	3.7Ah
	1HR	2.6Ah
Dimension	Length	90±1mm (3.54inch)
	Width	70±1mm (2.76inch)
	Height	101±1mm (3.98inch)
	Total Height	107±1mm (4.21inch)
Approx. Weight		1.36kg (3.0lbs)±5%
Terminal type		F1 or F2
Internal resistance (Fully charged, 25℃)		Approx. 55mΩ
Capacity affected by temperature (20HR)	40℃	102%
	25℃	100%
	0℃	85%
	-15℃	65%
Self-discharge (25℃)	3 month	Remaining Capacity: 91%
	6 month	Remaining Capacity: 82%
	12 month	Remaining Capacity: 65%
Nominal operating temperature		25℃±3℃(77℉±5℉)
Operating temperature range	Discharge	-15℃～50℃(5℉～122℉)
	Charge	-10℃～50℃(14℉～122℉)
	Storage	-20℃～50℃(-4℉～122℉)
Float charging voltage(25℃)		13.60 to 13.80V Temperature compensation: -18mV/℃
Cyclic charging voltage(25℃)		14.50 to 15.00V Temperature compensation: -30mV/℃
Maximum charging current		1.2A
Maximum discharge current		60 A(5 sec.)
Designed floating life(20℃)		5 years

DIMENSIONS



TERMINAL



CONSTRUCTION

Component	Positive plate	Negative plate	Container	Cover	Separator	Electrolyte	Safety valve	Terminal
Raw material	Lead dioxide	Lead	ABS	ABS	AGM	Sulfuric acid	Rubber	Copper

CONSTANT CURRENT DISCHARGE CHARACTERISTICS (A, 25℃)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	15.3	9.68	7.56	4.26	2.62	1.43	0.99	0.82	0.70	0.38	0.20
9.90V	14.8	9.39	7.38	4.17	2.58	1.42	0.99	0.82	0.69	0.38	0.20
10.2V	14.2	9.00	7.11	4.05	2.52	1.41	0.98	0.81	0.69	0.38	0.20
10.5V	13.6	8.62	6.86	3.95	2.47	1.39	0.97	0.80	0.68	0.37	0.20
10.8V	12.8	8.13	6.50	3.80	2.39	1.36	0.94	0.78	0.66	0.37	0.20

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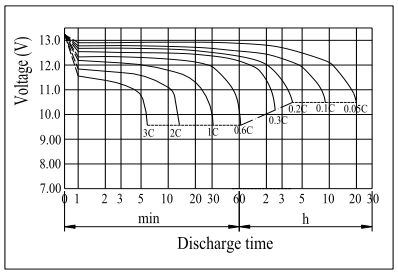
CONSTANT POWER DISCHARGE CHARACTERISTICS (WATT, 25°C)

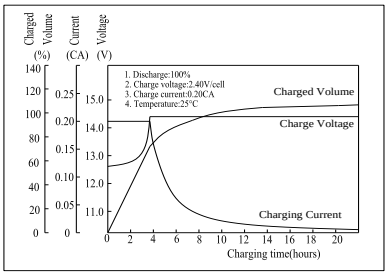
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	171	109	86.2	48.8	30.3	16.8	11.8	9.77	8.33	4.55	2.44
9.90V	165	106	84.1	47.8	29.9	16.7	11.7	9.71	8.28	4.53	2.43
10.2V	159	102	81.0	46.4	29.1	16.5	11.6	9.64	8.22	4.51	2.41
10.5V	152	97.2	78.3	45.3	28.5	16.3	11.5	9.58	8.17	4.48	2.40
10.8V	143	91.7	74.1	43.6	27.7	15.9	11.2	9.29	7.92	4.39	2.35

Note: The above characteristics data can be obtained within three charge/discharge cycles.

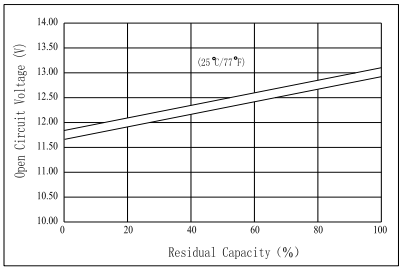
Discharge Characteristics (25°C)



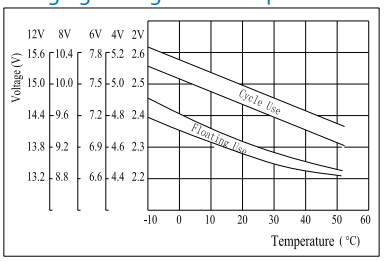
Charging Characteristics (25°C)



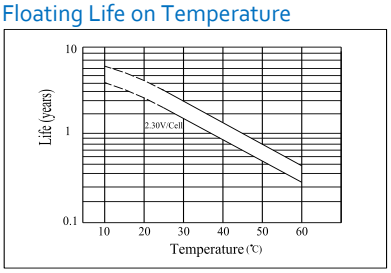
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



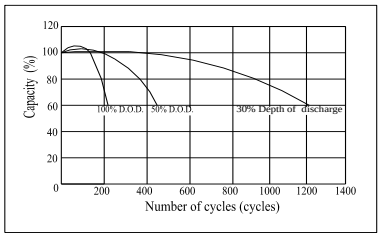
The Relationship for Charging Voltage and Temperature



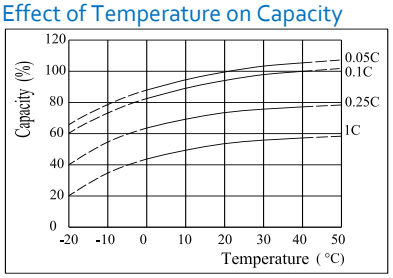
Floating Life on Temperature



Cycle Life on D.O.D (25°C)



Effect of Temperature on Capacity



Self-discharge Characteristics