

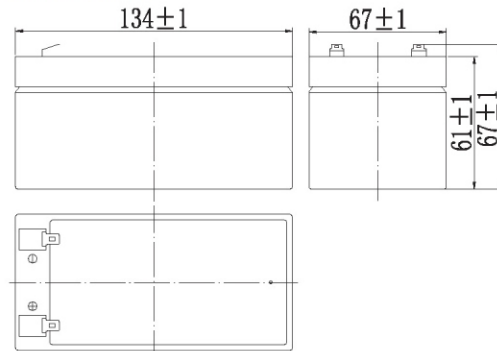
## BW 1234 (12V3.4Ah)

### SPECIFICATIONS

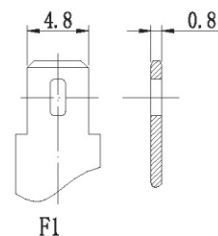
<b>Nominal Voltage</b>		12 V
<b>Capacity (25°C)</b>	20HR	3.4 Ah
	10HR	3.0 Ah
	1HR	2.1 Ah
<b>Dimension</b>	Length	134±1mm (5.28inch)
	Width	67±1mm (2.64inch)
	Height	61±1mm (2.40inch)
	Total Height	67±1mm (2.64inch)
<b>Approx. Weight</b>		1.25kg (2.76lbs)±5%
<b>Terminal type</b>		F1
<b>Internal resistance (Fully charged, 25°C)</b>		Approx. 55mΩ
<b>Capacity affected by temperature (20HR)</b>	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
<b>Self-discharge (25°C)</b>	3 month	Remaining Capacity: 91%
	6 month	Remaining Capacity: 82%
	12 month	Remaining Capacity: 65%
<b>Nominal operating temperature</b>		25°C±3°C(77F°±5F°)
<b>Operating temperature range</b>	Discharge	-15°C ~ 50°C(5F° ~ 122F°)
	Charge	-10°C ~ 50°C(14F° ~ 122F°)
	Storage	-20°C ~ 50°C(-4F° ~ 122F°)
<b>Float charging voltage(25°C)</b>	13.60 to 13.80V Temperature compensation: -18mV/C°	
<b>Cyclic charging voltage(25°C)</b>	14.50 to 15.00V Temperature compensation: -30mV/C°	
<b>Maximum charging current</b>	0.96A	
<b>Maximum discharge current</b>	48 A(5 sec.)	
<b>Designed floating life(20°C)</b>	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°C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	12.2	7.74	6.05	3.41	2.10	1.15	0.79	0.66	0.56	0.30	0.16
9.90V	11.9	7.51	5.90	3.34	2.06	1.14	0.79	0.65	0.55	0.30	0.16
10.2V	11.4	7.20	5.69	3.24	2.01	1.13	0.78	0.65	0.55	0.30	0.16
10.5V	10.9	6.89	5.49	3.16	1.97	1.11	0.78	0.64	0.55	0.30	0.16
10.8V	10.3	6.50	5.20	3.04	1.91	1.08	0.75	0.62	0.53	0.29	0.16

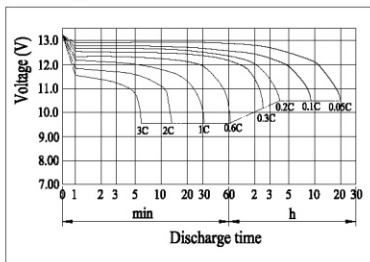


CONSTANT POWER DISCHARGE CHARACTERISTICS (WATT, 25°C)

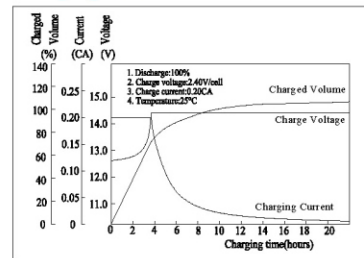
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	136	87.4	68.9	39.1	24.3	13.4	9.42	7.81	6.66	3.64	1.95
9.90V	132	84.7	67.3	38.3	23.9	13.3	9.37	7.77	6.63	3.62	1.94
10.2V	127	81.2	64.8	37.1	23.3	13.2	9.30	7.71	6.58	3.60	1.93
10.5V	121	77.7	62.6	36.2	22.8	13.0	9.24	7.66	6.53	3.58	1.92
10.8V	115	73.4	59.3	34.9	22.1	12.7	8.96	7.43	6.34	3.51	1.88

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

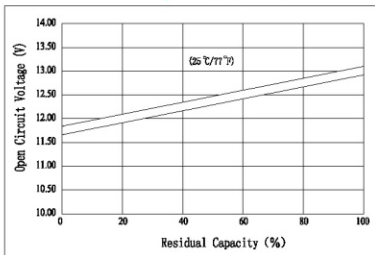
Discharge Characteristics (25°C)



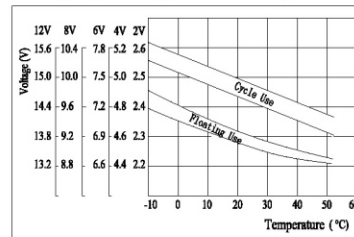
Charging Characteristics (25°C)



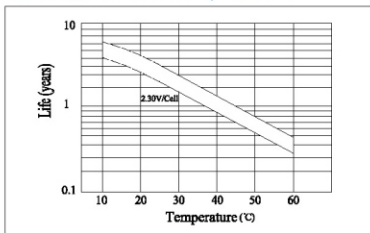
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



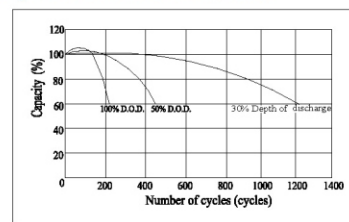
The Relationship for Charging Voltage and Temperature



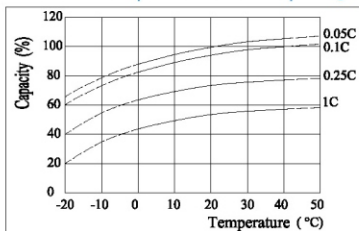
Floating Life on Temperature



Cycle Life on D.O.D (25°C)



Effect of Temperature on Capacity



Self-discharge Characteristics

