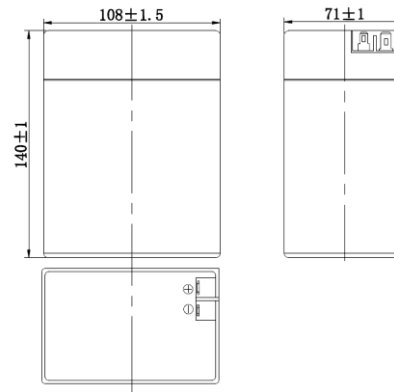


## BW 6140 (6V14AH)

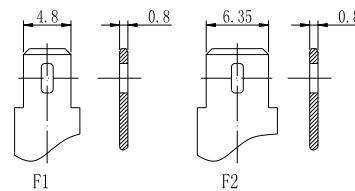
### SPECIFICATIONS

Nominal Voltage		6 V
Capacity (25°C)	20HR	14 Ah
	10HR	12.9 Ah
	1HR	9.1 Ah
Dimension	Length	108 ± 1.5mm (4.25inch)
	Width	71 ± 1mm (2.80inch)
	Height	140 ± 1mm (5.51inch)
	Total Height	140 ± 1mm (5.51inch)
Approx. Weight		2.3kg (5.07lbs) ± 5%
Terminal type		F1/F2
Internal resistance (Fully charged, 25°C)		Approx. 14m Ω
Capacity affected by temperature (20HR)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-discharge (25°C)	3 month	Remaining Capacity: 91%
	6 month	Remaining Capacity: 82%
	12 month	Remaining Capacity: 65%
Nominal operating temperature		25°C ± 3°C (77°F ± 5°F)
Operating temperature range	Discharge	-15°C ~ 50°C (5°F ~ 122°F)
	Charge	-10°C ~ 50°C (14°F ~ 122°F)
	Storage	-20°C ~ 50°C (-4°F ~ 122°F)
Float charging voltage(25°C)		6.80 to 6.90V Temperature compensation: -9mV/°C
Cyclic charging voltage(25°C)		7.25 to 7.50V Temperature compensation: -15mV/°C
Maximum charging current		4.2 A
Maximum discharge current		210 A(5 sec.)
Designed floating life(20°C)		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)

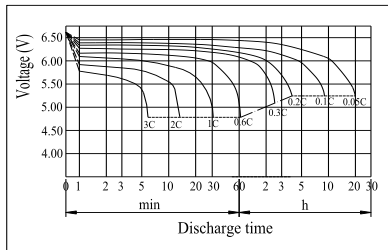
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
4.80V	53.5	33.9	26.5	14.9	9.19	5.03	3.47	2.88	2.44	1.33	0.71
4.95V	52.1	33.0	25.8	14.6	9.05	4.99	3.46	2.87	2.43	1.32	0.71
5.10V	49.8	31.5	24.9	14.1	8.83	4.96	3.44	2.84	2.42	1.31	0.70
5.25V	47.7	30.2	24.1	13.8	8.65	4.88	3.41	2.82	2.40	1.30	0.70
5.40V	45.0	28.5	22.8	13.3	8.38	4.76	3.31	2.74	2.33	1.29	0.69

**CONSTANT POWER DISCHARGE CHARACTERISTICS (WATT, 25°C)**

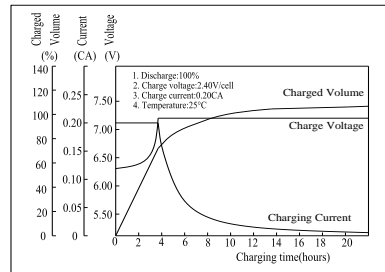
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
4.80V	299	192	151	85.6	53.2	29.5	20.7	17.2	14.6	7.98	4.27
4.95V	290	186	147	84.0	52.4	29.2	20.6	17.1	14.5	7.94	4.26
5.10V	278	178	143	81.4	51.1	29.0	20.4	16.9	14.4	7.91	4.23
5.25V	267	171	137	79.4	50.0	28.5	20.2	16.8	14.3	7.86	4.21
5.40V	252	161	130	76.5	48.6	27.8	19.7	16.3	13.9	7.70	4.13

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

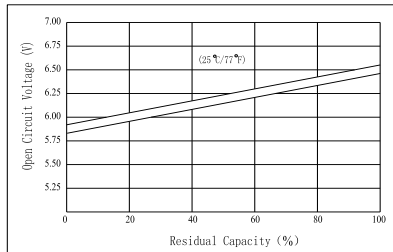
**Discharge Characteristics (25°C)**



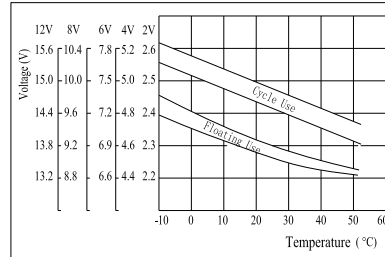
**Charging Characteristics (25°C)**



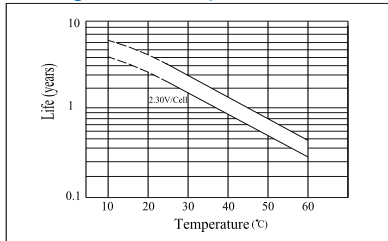
**The Relationship for Open Circuit Voltage and Residual Capacity (25°C)**



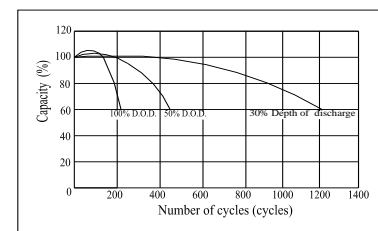
**The Relationship for Charging Voltage and Temperature**



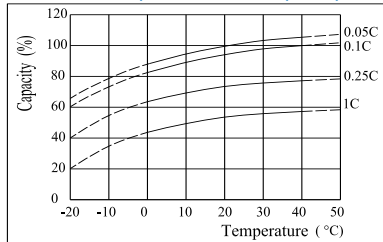
**Floating Life on Temperature**



**Cycle Life on D.O.D (25°C)**



**Effect of Temperature on Capacity**



**Self-discharge Characteristics**

