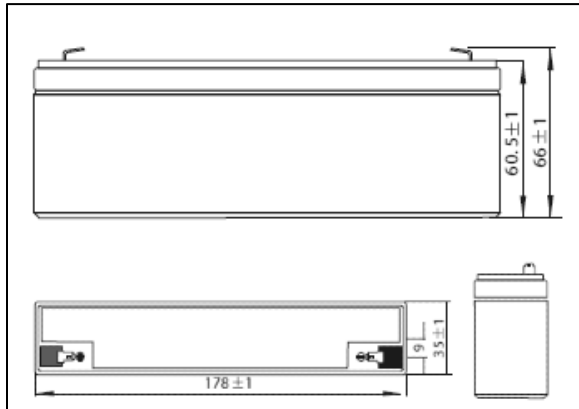


### Specifications

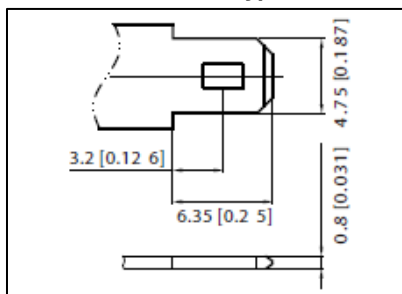
Nominal Voltage	12V
Rated Capacity (20-hour rate)	2.9Ah
Dimensions	
Length	178±1mm (7.00inch)
Width	35±1mm (1.38inch)
Height	61±1mm (2.38inch)
Total Height	66±1mm (2.60inch)
Approximate Weight	1.05kg (2.32lbs)±5%



### Outer Dimensions



### Terminal Type



### Characteristics

Capacity (25°C)	
20HR (10.5V)	2.9Ah
10HR (10.5V)	2.7Ah
1HR (9.60V)	1.8Ah
Terminal Type	F1
Internal Resistance	Approx. 55m Ω
Capacity affected by temperature (20HR)	
40°C	102%
25°C	100%
0°C	85%
-15°C	65%
Self-Discharge (25°C)	
3 months	Remaining Capacity: 91%
6 months	Remaining Capacity: 82%
12 months	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)	13.50 to 13.80V Temperature compensation: -18mV/°C
Cyclic charging voltage (25°C)	14.4 to 15.00V Temperature compensation: -30mV/°C
Maximum charging current	0.87A
Maximum discharge current	43.5A (5 sec.)
Designed Floating Life (20°C)	5 years

### 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

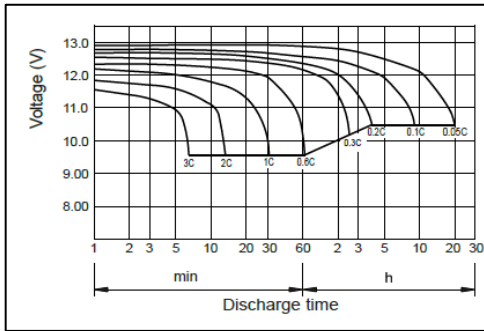
F.V/Time	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
1.85V	5.52	4.24	3.51	2.35	1.46	0.86	0.67	0.55	0.45	0.26	0.14
1.80V	7.41	5.42	4.24	2.77	1.63	0.94	0.73	0.59	0.48	0.27	0.15
1.75V	8.36	5.95	4.64	2.88	1.71	0.98	0.74	0.60	0.49	0.28	0.15
1.70V	9.20	6.49	4.95	2.99	1.76	1.00	0.76	0.61	0.51	0.28	0.15
1.65V	10.15	7.00	5.26	3.16	1.80	1.02	0.79	0.64	0.52	0.29	0.15

### Constant Power Discharge Characteristics

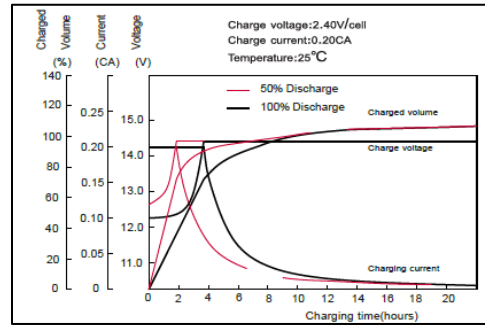
F.V/Time	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
1.85V	10.1	7.83	6.56	4.48	2.81	1.67	1.32	1.07	0.88	0.52	0.28
1.80V	13.4	9.89	7.81	5.20	3.13	1.82	1.41	1.14	0.94	0.53	0.29
1.75V	14.8	10.7	8.43	5.36	3.26	1.88	1.43	1.16	0.96	0.55	0.29
1.70V	15.8	11.4	8.87	5.54	3.36	1.92	1.46	1.19	0.98	0.56	0.29
1.65V	17.2	12.2	9.36	5.80	3.41	1.94	1.52	1.23	1.01	0.57	0.30

\*Note: The above characteristics data can be obtained within three charge or discharge cycles.

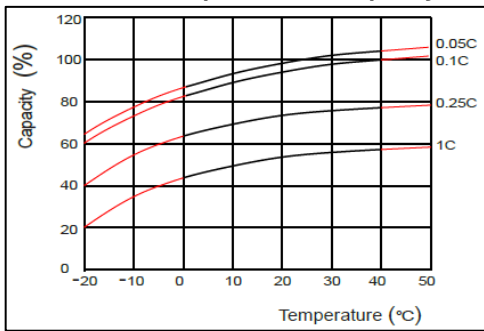
### Discharge Characteristics



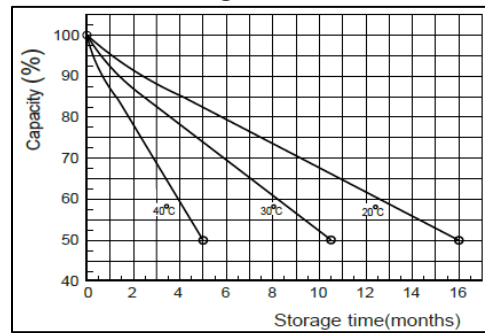
### Charging Characteristics



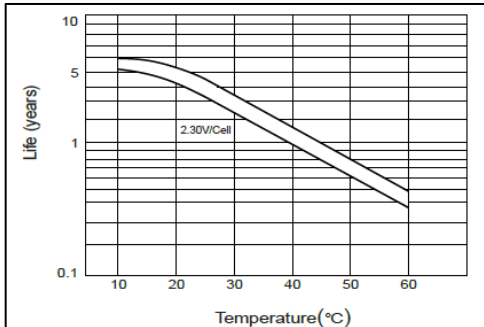
### Effect of Temperature on Capacity



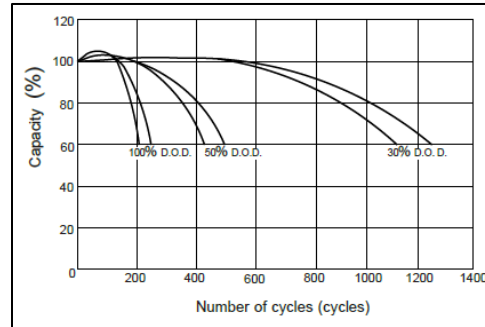
### Self-discharge Characteristics



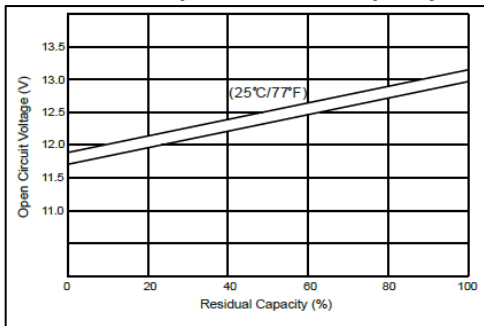
### Floating Life on Temperature



### Cycle Life on D.O.D



### Relationship for OCV and Capacity



### Relationship for Charging voltage and Temperature

