

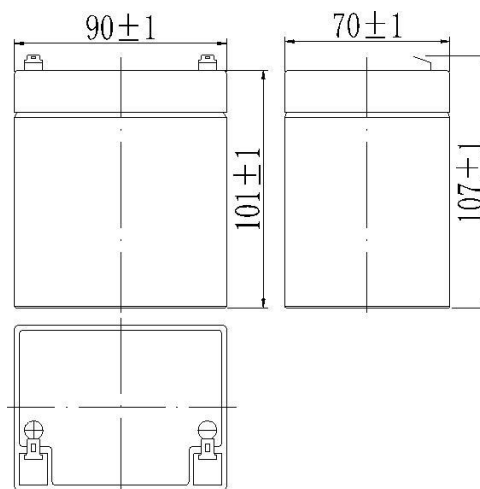
Specifications

Nominal Voltage		12 V
Capacity (25°C)	20HR(10.5V)	4Ah
	10HR(10.5V)	3.7Ah
	1HR(9.60V)	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		1.28kg (2.82lbs)±5%
Terminal type		T1/T2
Internal resistance (Fully charged, 25°C)		Approx. 55mΩ
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)		13.60 to 13.80V Temperature compensation: -18mV/°C
Cyclic charging voltage(25°C)		14.50 to 14.90V Temperature compensation: -30mV/°C
Maximum charging current		1.2A
Terminal material		Copper
Maximum discharge current		60A(5 sec.)
Designed floating life(20°C)		5 years

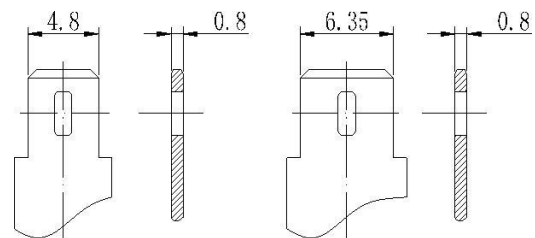
- Absorbent glass mat technology;
- Recognized by CE;
- ABS container.



Dimensions



Terminal



Terminal T1

Terminal T2

Constant Current Discharge Characteristics (A, 25°C)

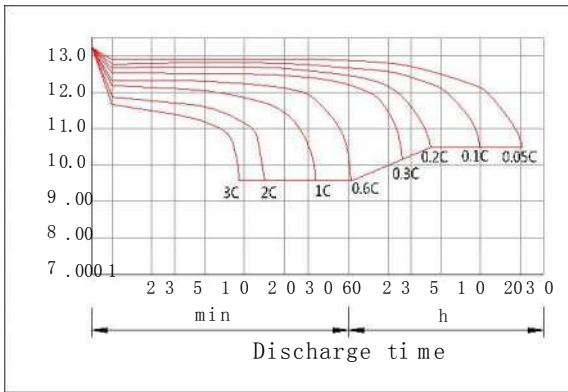
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	15.2	9.60	7.60	4.24	2.60	1.42	1.02	0.82	0.69	0.38	0.20
9.90V	14.7	9.31	7.42	4.16	2.56	1.41	1.01	0.81	0.69	0.38	0.20
10.2V	14.1	8.93	7.14	4.03	2.50	1.40	1.01	0.81	0.68	0.37	0.20
10.5V	13.5	8.54	6.90	3.93	2.45	1.38	1.00	0.80	0.68	0.37	0.20
10.8V	12.8	8.06	6.54	3.79	2.37	1.34	0.97	0.78	0.66	0.36	0.20

Constant Power Discharge Characteristics (Watt, 25°C)

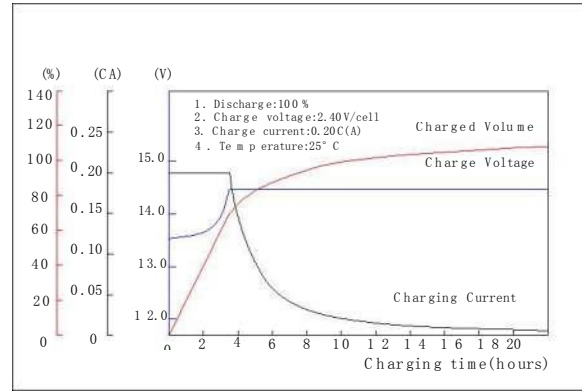
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	170	108	86.6	48.6	30.1	16.6	12.1	9.72	8.28	4.53	2.44
9.90V	165	105	84.6	47.6	29.7	16.5	12.0	9.66	8.23	4.51	2.43
10.2V	158	101	81.4	46.2	28.9	16.4	12.0	9.59	8.18	4.49	2.41
10.5V	151	96.4	78.7	45.0	28.3	16.1	11.9	9.53	8.12	4.46	2.40
10.8V	142	91.0	74.5	43.4	27.5	15.7	11.5	9.24	7.88	4.37	2.35

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

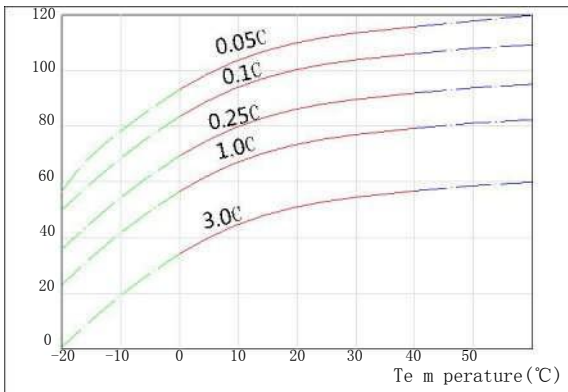
Discharge Characteristics(25°C)



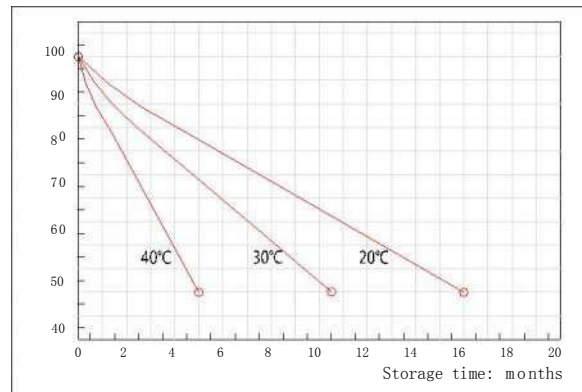
Charging Characteristics(25°C)



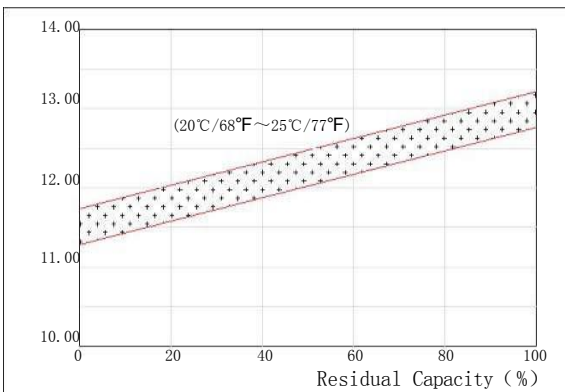
Effect of Temperature on Capacity



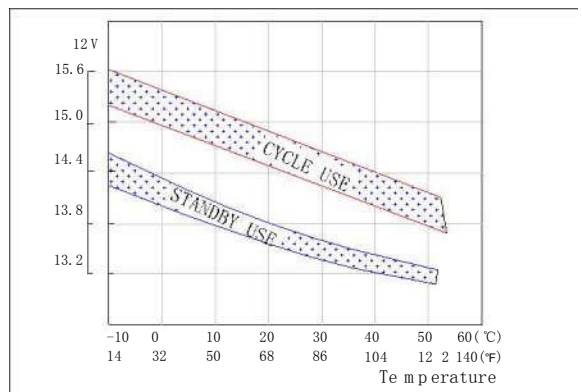
Self-discharge Characteristics



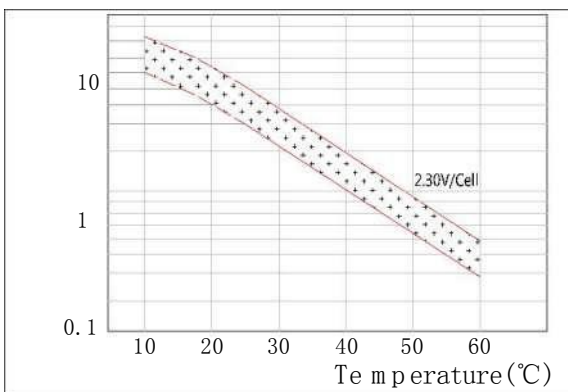
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)

