UB-12U9.0 (12V9.0AH)



Capacity & electrical

Capacity (25°C)	
20HR(10.5V)	9Ah
10HR(10.5V)	8.4Ah
1HR(9.60V)	5.4Ah
Terminal type	T1/T2
Internal resistance (Fully charged,25°C)	Approx.19mΩ
Maximum charging current	2.7A
Maximum discharge current	135A(5 sec.)
Designed floating life(20°C)	5 years

Operating temperatures

Nominal operating temperature	25°C±3°C(77°F±5°F)
Discharge	-15℃~50℃(5℉~122℉)
Charge	-10℃~50℃(14℉~122℉)
Storage	-20℃~50℃(-4℉~122℉)

Charging parameters

Float charging voltage(25°C)

13.60 to 13.80V Temperature compensation:-18mV/°C

Cyclic charging voltage(25°C)

14.50 to 15.00V
Temperature compensation:
-30mV/°C

Self-discharge (25°C)

3month	Remaining Capacity:91%
6month	Remaining Capacity:82%
12month	Remaining Capacity:65%

Capacity affected by temperature (20HR)

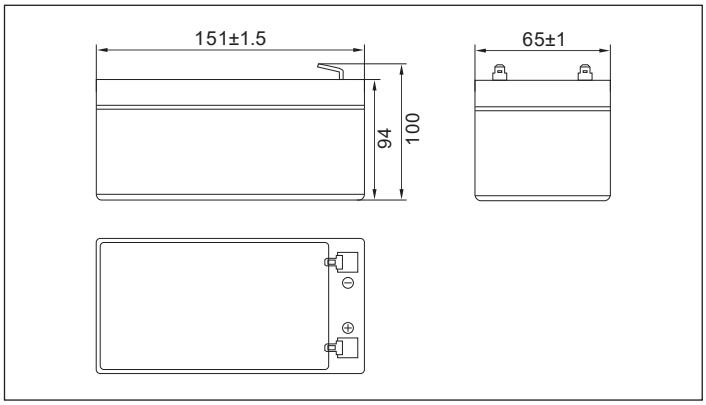
40℃	102%
25℃	100%
0℃	85%
-15℃	65%

Specifications & technical details

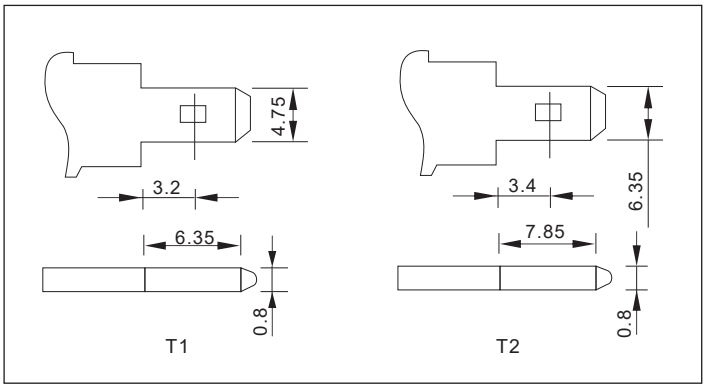
Specifications

Nominal Voltage	12V	Length	151±1.5mm(5.94inch)
Rated capacity (20 hour rate)	9Ah	Width	65±1mm(2.56inch)
Approx. Weight	2.6kg(5.73lbs)±4%	Height	94±1mm(3.70inch)
		Total Height	100±1mm(3.94inch)

Outer dimensions (mm)



Terminal Type (mm)



Construction

Component	Positiveplate	Negative plate	Container	Cover	Separator	Electrolyte	Safety valve	Terminal
Raw material	Lead dioxide	Lead	ABS	ABS	AGM	Sulfuricacid	Rubber	Copper

Constant Current Discharge Characteristics Unit:A(25°C,77°F)

F.V/Time	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	34.4	21.8	17.0	9.59	5.90	3.22	2.23	1.85	1.57	0.85	0.46
9.90V	33.3	21.1	16.6	9.39	5.81	3.21	2.22	1.83	1.56	0.85	0.45
10.2V	32.0	20.3	16.0	9.11	5.66	3.18	2.20	1.82	1.55	0.84	0.45
10.5V	30.6	19.4	15.4	8.89	5.55	3.13	2.19	1.81	1.54	0.84	0.45
10.8V	28.9	18.3	14.6	8.56	5.38	3.05	2.12	1.75	1.49	0.82	0.44

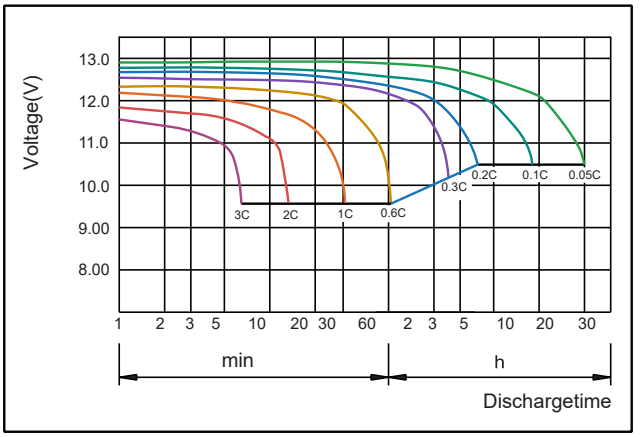
Constant Power Discharge Characteristics Unit:W(25°C,77°F)

F.V/Time	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	384	246	194	110	68.3	37.7	26.5	22.0	18.7	10.2	5.48
9.90V	372	238	189	108	67.2	37.5	26.3	21.8	18.6	10.2	5.46
10.2V	357	228	182	104	65.5	37.2	26.2	21.7	18.5	10.1	5.43
10.5V	341	219	176	102	64.2	36.6	26.0	21.5	18.4	10.1	5.40
10.8V	322	206	167	98.1	62.3	35.7	25.2	20.9	17.8	9.87	5.29

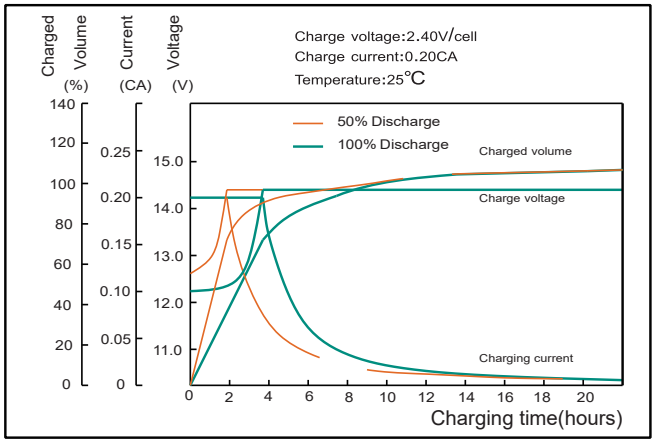
Note: The above characteristics data can be obtained within three charge or discharge cycles.

Performance characteristics

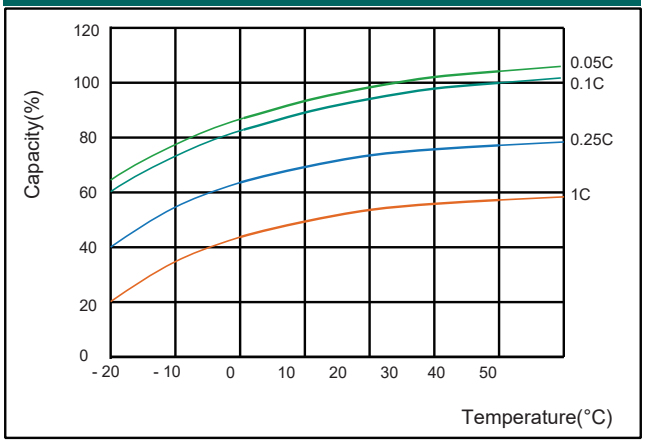
Discharge characteristics (25°C)



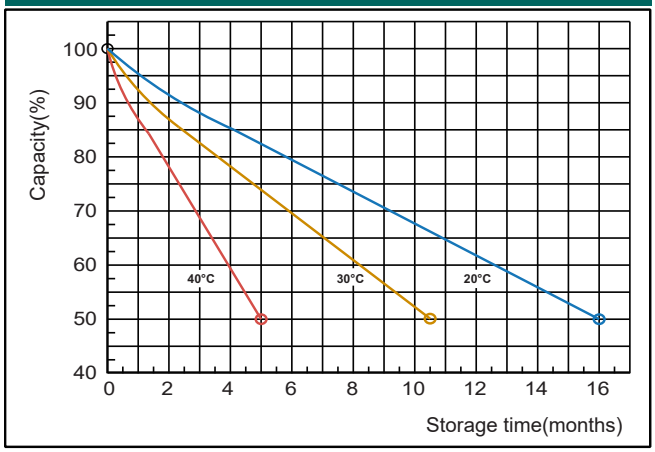
Charge characteristics (25°C)



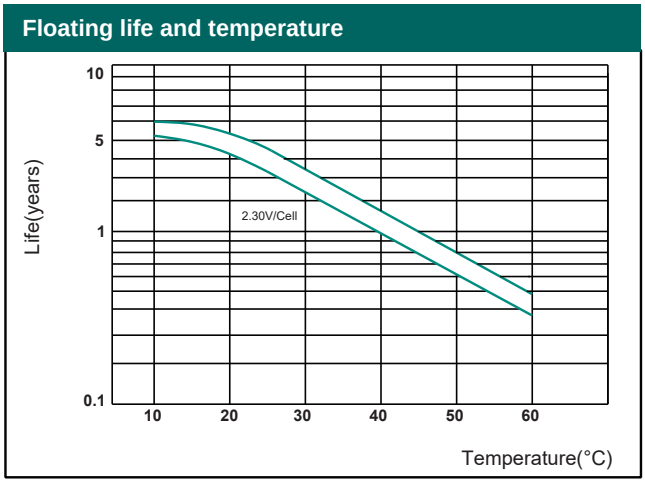
Effect of temperature on capacity



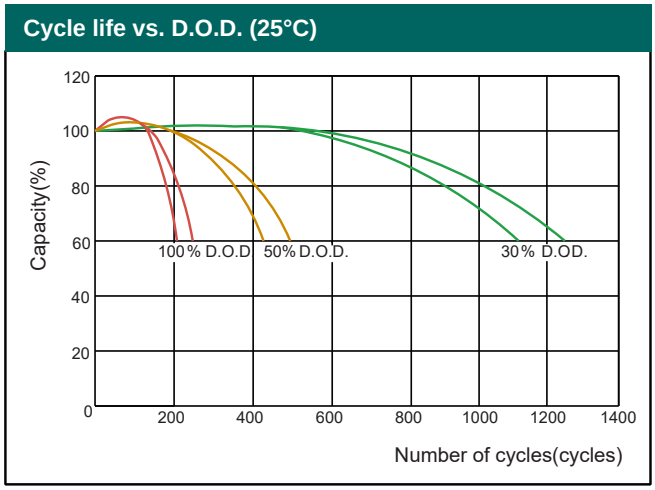
Self-discharge characteristics



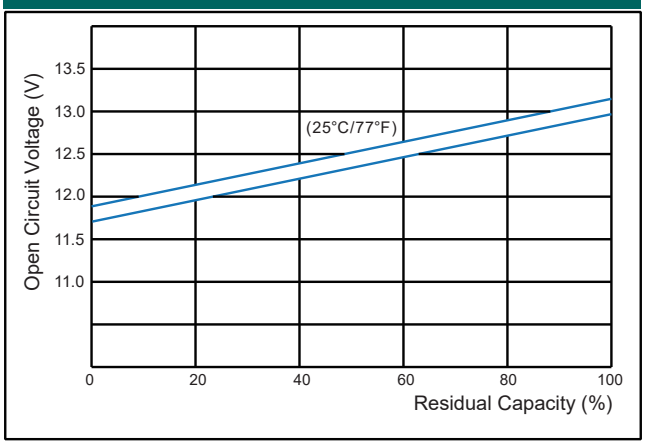
Floating life and temperature



Cycle life vs. D.O.D. (25°C)



OCV and capacity (25°C)



Charging voltage and temperature

