UB-12U10.0 (12V10.0AH)



Capacity & electrical

Capacity (25°C)	
20HR(10.5V)	10Ah
10HR(10.5V)	9.3Ah
1HR(9.60V)	6Ah
Terminal type	T2/T1
Internal resistance (Fully charged,25°C)	Approx.22m Ω
Maximum charging current	3A
Maximum discharge current	150A(5 sec.)
Designed floating life(20°C)	5 years

Operating temperatures

Nominal operating temperature	25℃ ±3℃(77℉ ±5℉)
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/℃

Cyclic charging voltage(25°C)

14.50 to 15.00V
Temperature compensation: -30mV/℃

Self-discharge (25°C)

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

Capacity affected by temperature (20HR)

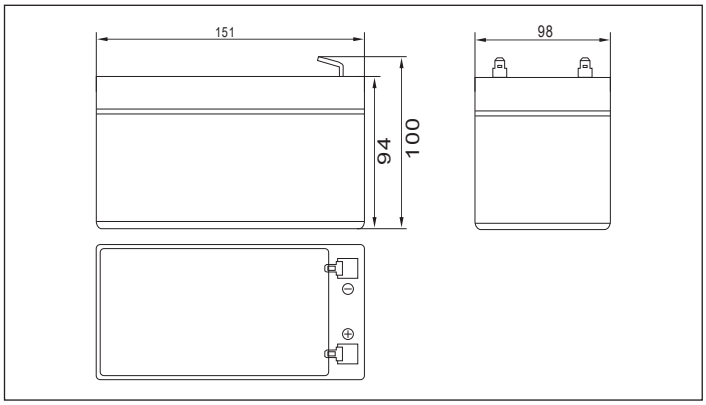
40℃	102%
25℃	100%
0℃	85%
-15℃	65%

Specifications & technical details

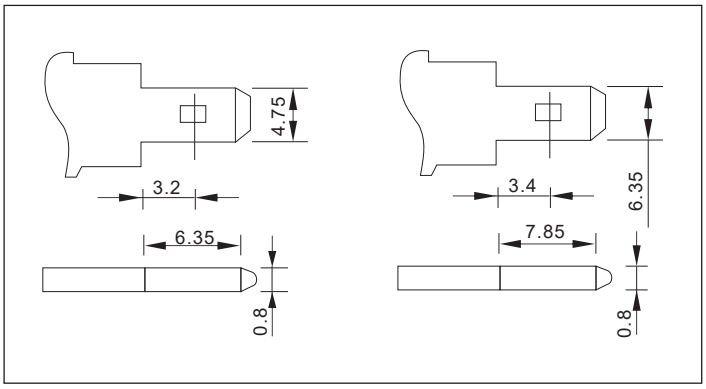
Specifications

Nominal Voltage	12V	Length	151±1.5mm(5.94inch)
Rated capacity (20 hour rate)	10Ah	Width	98±1mm(3.86inch)
Approx. Weight	3.1kg(6.83lbs)±4%	Height	95±1mm(3.74inch)
		Total Height	101±1mm(3.98inch)

Outer dimensions (mm)



Terminal Type (mm)



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 Unit:A(25°C,77°F)

F.V/Time	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	38.2	24.2	18.9	10.7	6.55	3.6	2.48	2.05	1.74	0.95	0.51
9.90V	37.1	23.5	18.4	10.4	6.45	3.56	2.46	2.04	1.73	0.94	0.51
10.2V	35.5	22.5	17.8	10.1	6.29	3.53	2.45	2.02	1.72	0.94	0.50
10.5V	34.0	21.5	17.2	9.87	6.16	3.48	2.43	2.01	1.71	0.93	0.50
10.8V	32.1	20.3	16.3	9.51	5.97	3.39	2.36	1.95	1.66	0.91	0.49

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

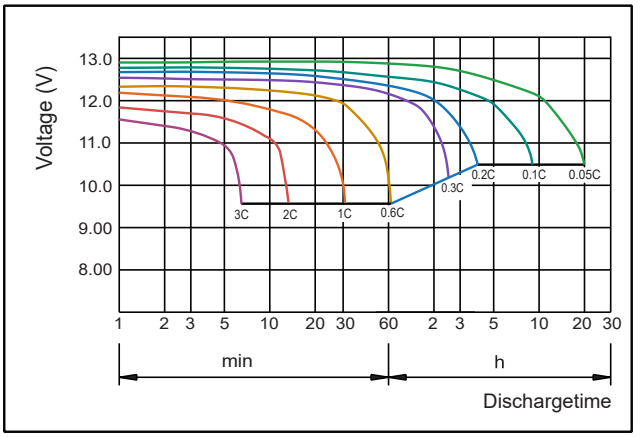
F.V/Time	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	426	273	215	122	75.8	41.9	29.4	24.4	20.8	11.4	6.09
9.90V	414	265	210	120	74.7	41.7	29.3	24.3	20.7	11.3	6.07
10.2V	396	254	203	116	72.8	41.3	29.1	24.1	20.6	11.3	6.04
10.5V	379	243	196	113	71.4	40.7	28.9	23.9	20.4	11.2	6.00
10.8V	358	229	185	109	69.2	39.6	28.0	23.2	19.8	11.0	5.88

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

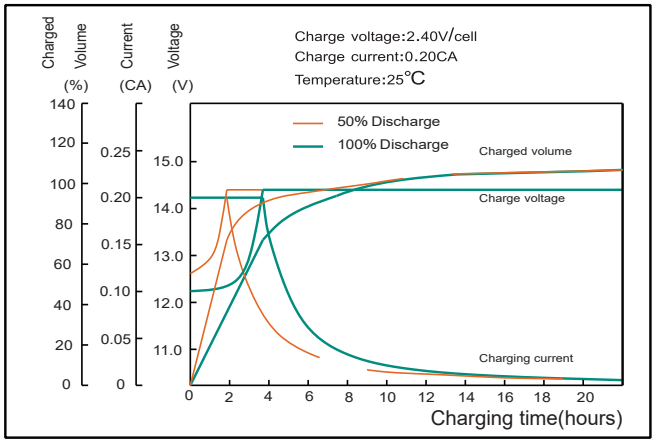
MH47211

Performance characteristics

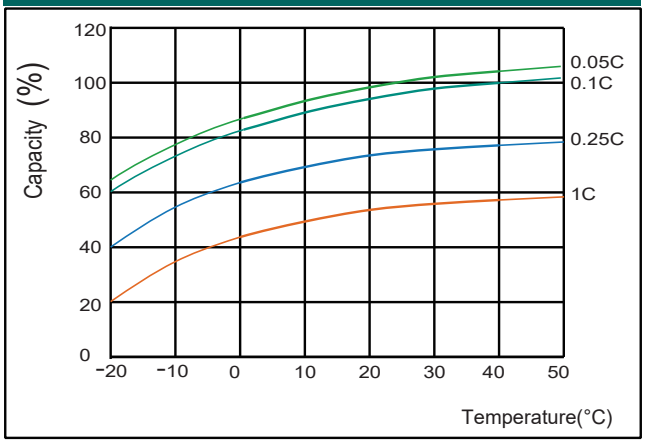
Discharge characteristics (25°C)



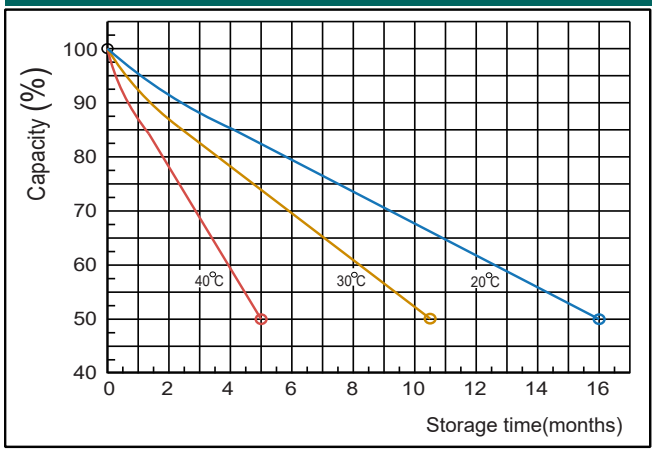
Charge characteristics (25°C)



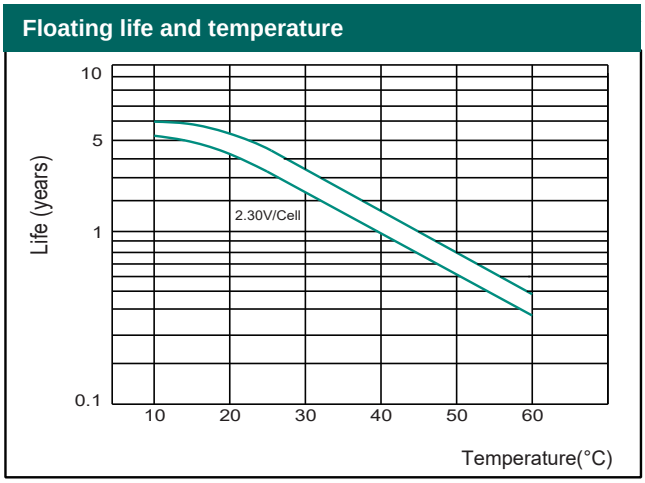
Effect of temperature on capacity



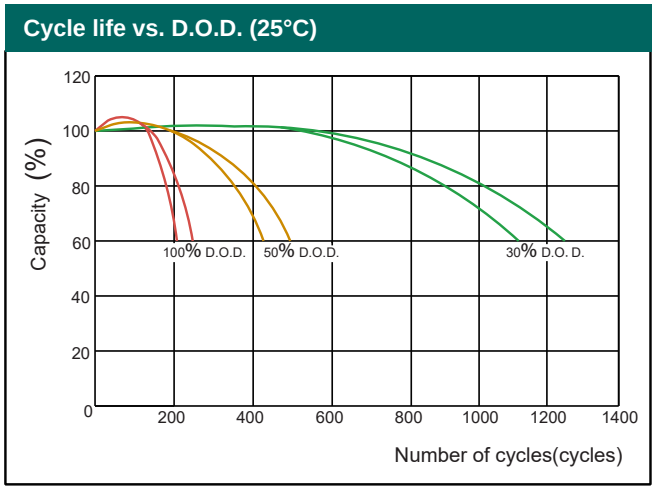
Self-discharge characteristics



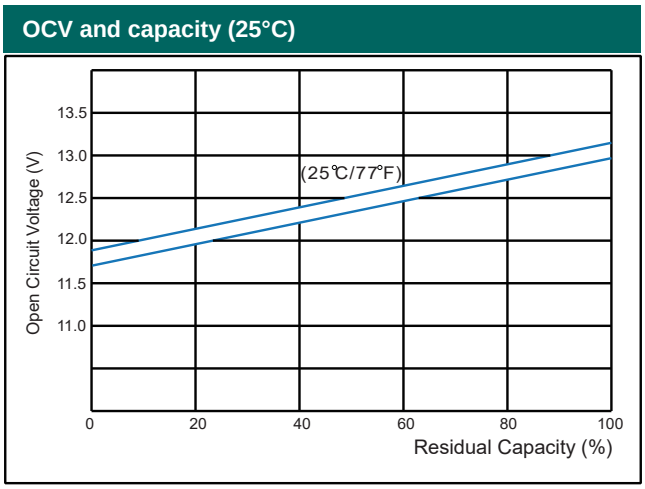
Floating life and temperature



Cycle life vs. D.O.D. (25°C)



OCV and capacity (25°C)



Charging voltage and temperature

