UNIVERSAL BATTERY

UB-12U150.0 (12V150.0AH)



Capacity & electrical

Capacity (25°C)	
10HR(10.8V)	**150Ah**
3HR(10.8V)	**112.5Ah**
1HR(10.5V)	**85Ah**
Terminal type	**T16**
Internal resistance (Fully charged,25°C)	**Approx.4mΩ**
Maximum charging current	**45A**
Maximum discharge current	**1200A(5 sec.)**
Designed floating life(20°C)	**10years**

Operating temperatures

Nominal operating temperature	**25°C±3°C (77°F±5°F)**
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)**

Charging parameters

Float charging voltage(25°C)

13.50 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 (10HR)

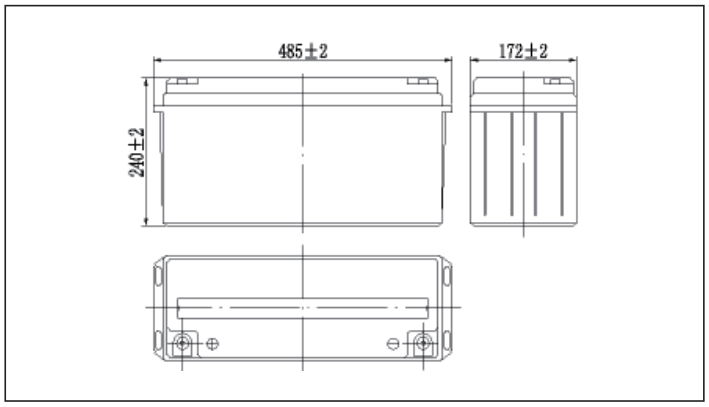
40°C	**102%**
25°C	**100%**
0°C	**85%**
-15°C	**65%**

Specifications & technical details

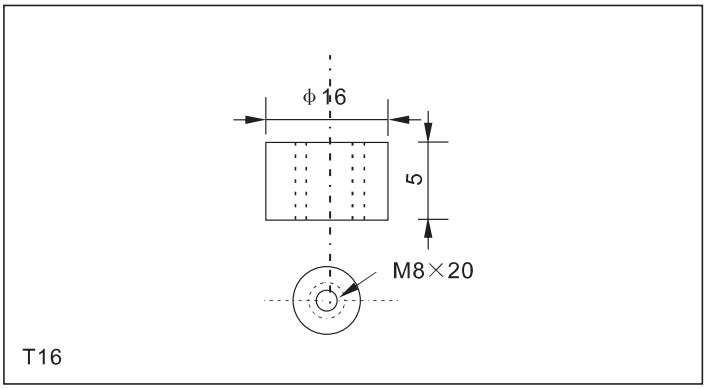
Specifications

Nominal Voltage	**12V**	Length	**485±2mm (19.09inch)**
Rated capacity (10 hour rate)	**150Ah**	Width	**172±2mm (6.77inch)**
Approx. Weight	**41.8kg (92.1lbs)±3%**	Height	**240±2mm (9.45inch)**
		Total Height	**240±2mm (9.45inch)**

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	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	327	252	151	92.7	54.8	39.5	31.5	26.9	18.5	15.3	8.09
9.90V	317	246	148	91.3	54.5	39.2	31.3	26.8	18.4	15.2	8.08
10.2V	304	237	143	89.0	54.0	39.0	31.1	26.6	18.3	15.2	8.05
10.5V	291	229	140	86.2	53.2	38.7	30.9	26.4	18.2	15.1	8.01
10.8V	275	217	135	83.4	51.8	37.5	30.3	25.6	17.6	15.0	7.95

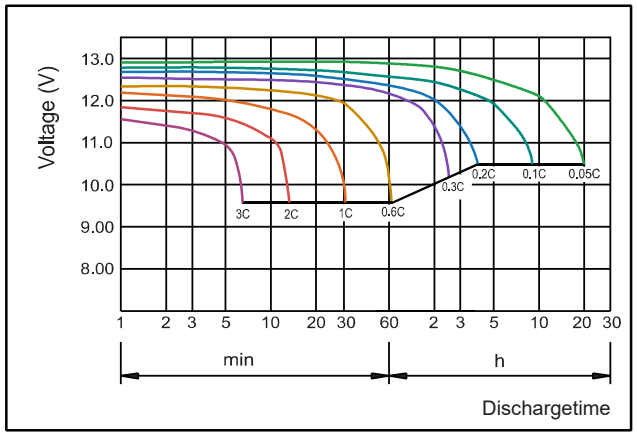
Constant Power Discharge Characteristics Unit:W(25°C,77°F)

F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	3532	2767	1691	1057	635	464	371	318	220	182	97.1
9.90V	3426	2701	1658	1041	631	461	368	316	219	182	96.9
10.2V	3284	2601	1607	1015	625	458	366	314	217	181	96.6
10.5V	3143	2512	1568	983	616	455	363	312	216	180	96.1
10.8V	2967	2380	1510	951	600	441	352	303	209	179	95.4

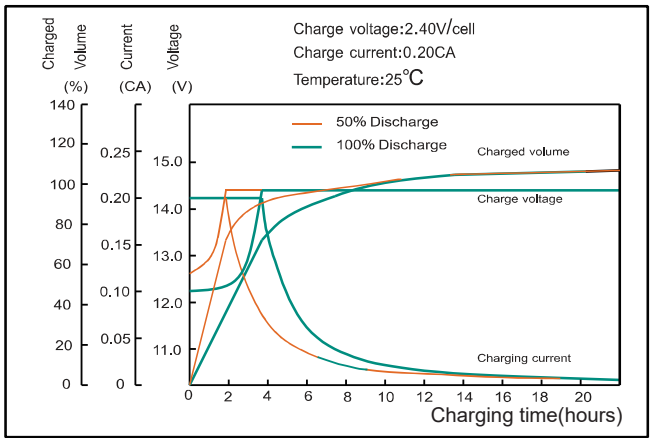
Note: The above characteristics data can be obtained within three charge or discharge cycles.

Performance characteristics

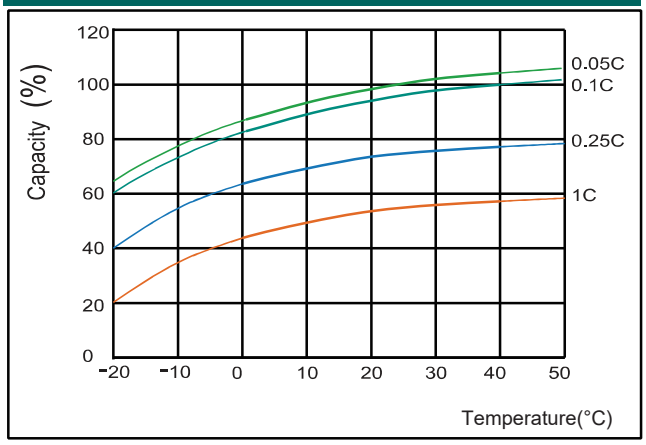
Discharge characteristics (25°C)



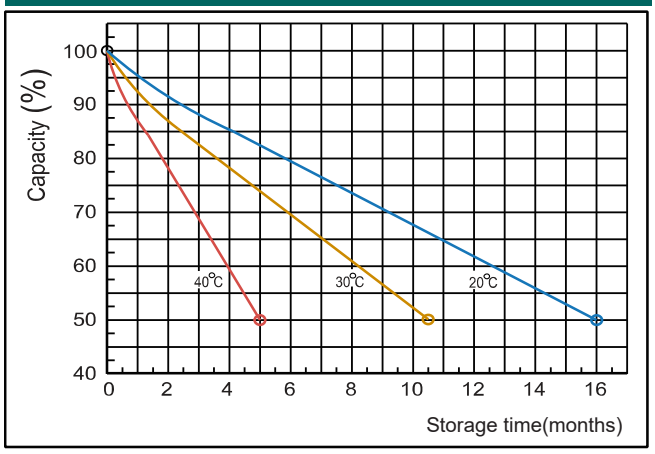
Charge characteristics (25°C)



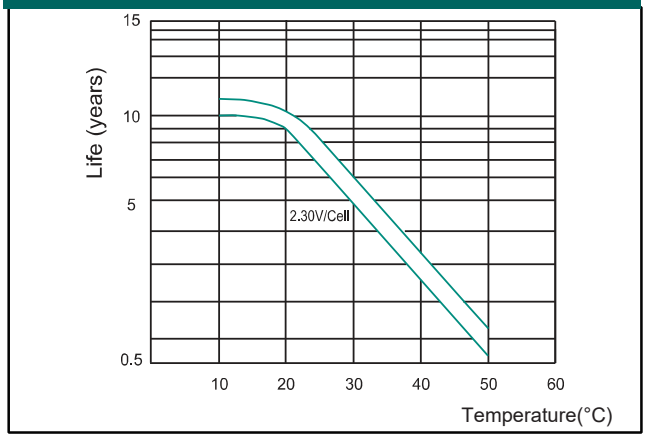
Effect of temperature on capacity



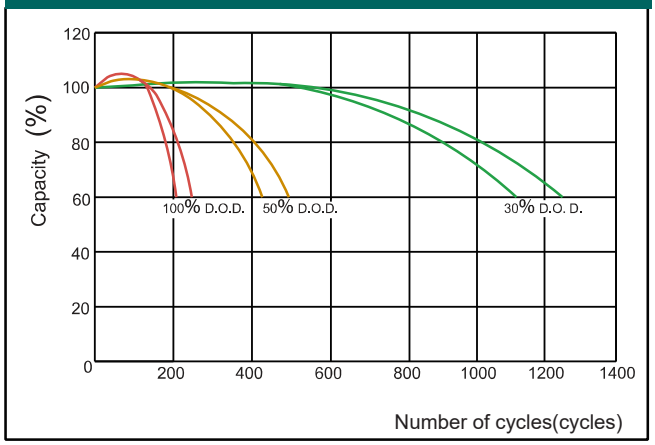
Self-discharge characteristics



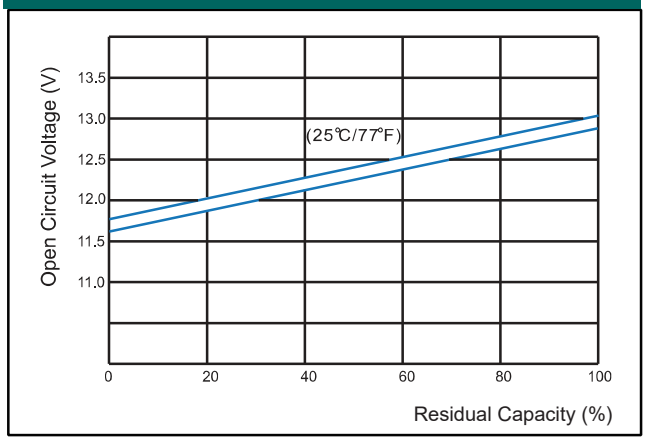
Floating life and temperature



Cycle life vs. D.O.D. (25°C)



OCV and capacity (25°C)



Charging voltage and temperature

