UNIVERSAL BATTERY

UB-12U65.0

(12V65.0AH)



Capacity & electrical

Capacity (25°C)	
10HR(10.8V)	**65Ah**
3HR(10.8V)	**48Ah**
1HR(10.5V)	**36Ah**
Terminal type	**T14**
Internal resistance (Fully charged,25°C)	**Approx.6.5mΩ**
Maximum charging current	**19.5A**
Maximum discharge current	**650A(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)

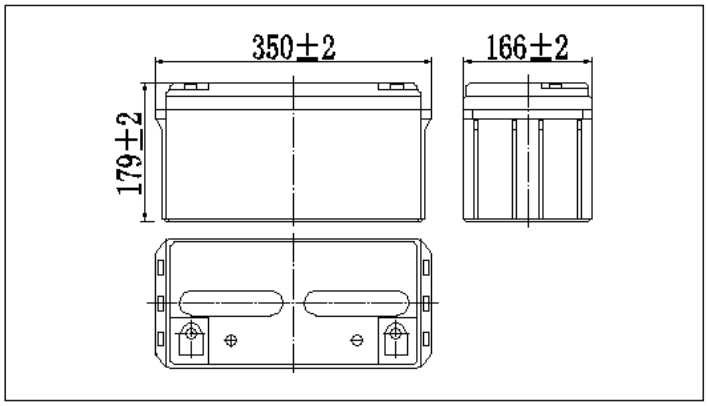
40°C	**102%**
25°C	**100%**
0°C	**85%**
-15°C	**65%**

Specifications & technical details

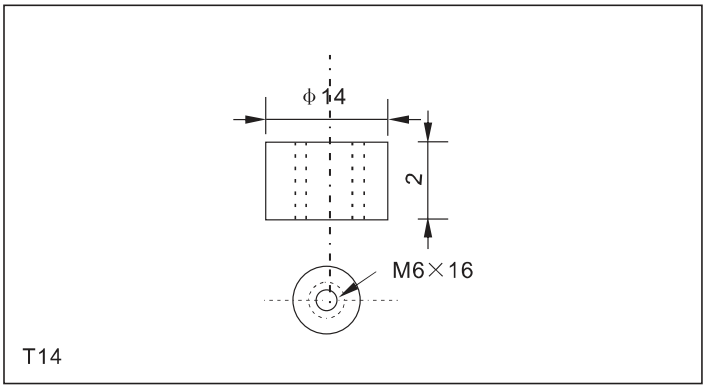
Specifications

Nominal Voltage	**12V**	Length	**350±2mm (13.78inch)**
Rated capacity (10 hour rate)	**65Ah**	Width	**166±2mm (5.54inch)**
Approx. Weight	**20.4kg (45.0lbs)±3%**	Height	**179±2mm (7.05inch)**
		Total Height	**179±2mm (7.05inch)**

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	142	109	65.3	40.2	23.8	17.1	13.7	11.7	8.02	6.62	3.51
9.90V	137	107	64.0	39.6	23.6	17.0	13.6	11.6	7.98	6.60	3.50
10.2V	132	103	62.1	38.6	23.4	16.9	13.5	11.5	7.92	6.58	3.49
10.5V	126	99.2	60.6	37.4	23.0	16.8	13.4	11.4	7.87	6.55	3.47
10.8V	119	93.9	58.3	36.2	22.5	16.3	13.0	11.1	7.63	6.50	3.45

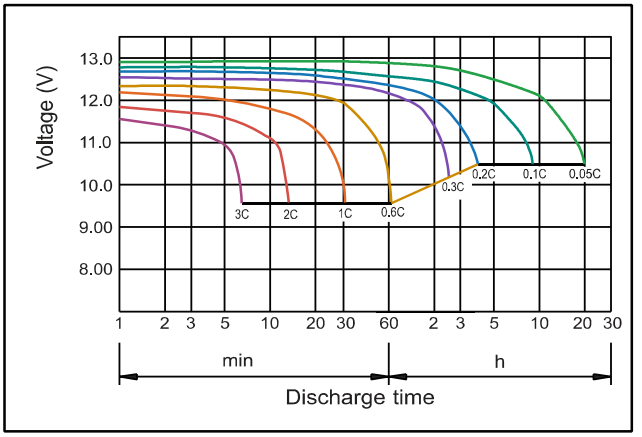
● Constant Power Discharge Characteristics Unit:W(25°C,77°F)

F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	1530	1199	733	458	275	201	161	138	95.3	79.0	42.1
9.90V	1484	1170	718	451	273	200	160	137	94.7	78.9	42.0
10.2V	1423	1127	696	440	271	199	159	136	94.1	78.6	41.9
10.5V	1362	1089	679	426	267	197	157	135	93.4	78.2	41.6
10.8V	1286	1031	655	412	260	191	153	131	90.6	77.6	41.3

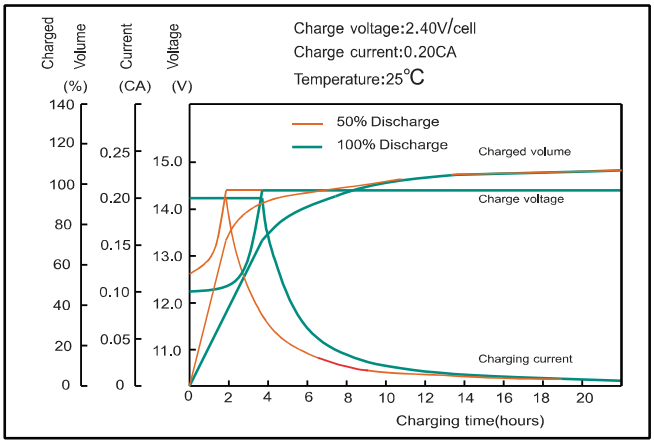
Note: The above characteristics data can be obtained within three charge or discharge cycles.

Performance characteristics

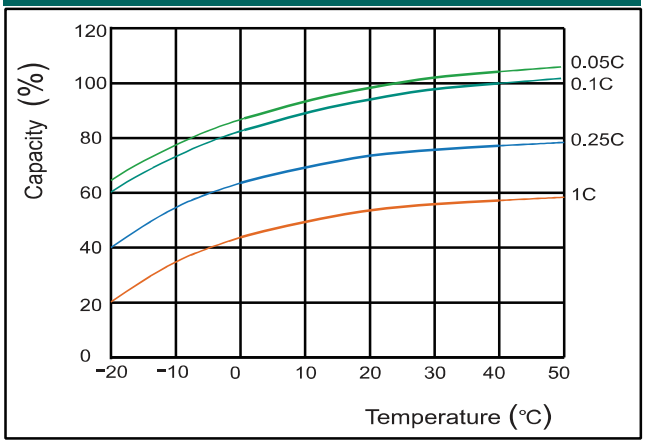
Discharge characteristics (25°C)



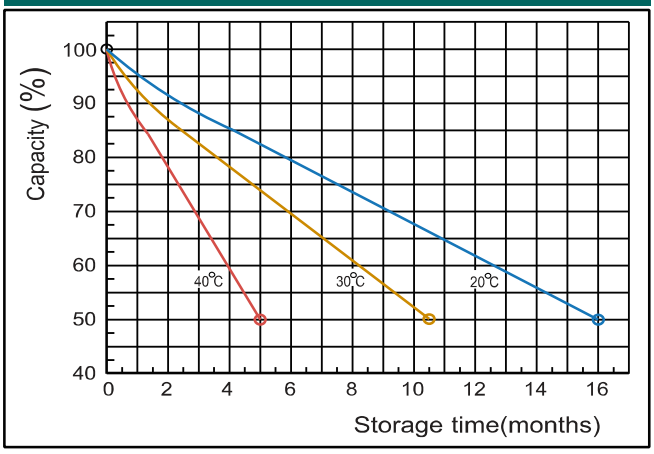
Charge characteristics (25°C)



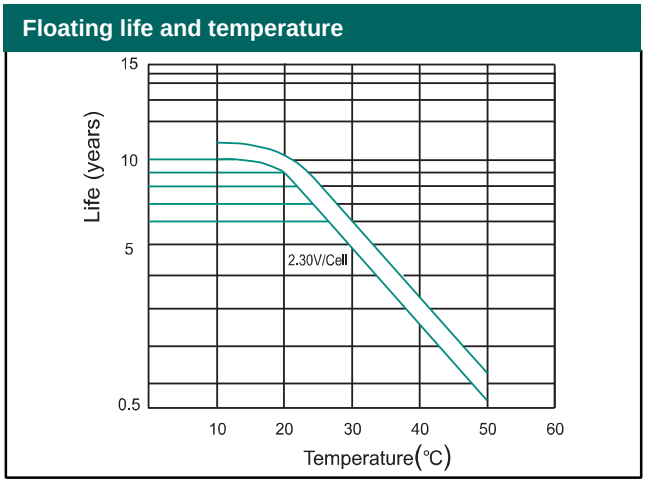
Effect of temperature on capacity



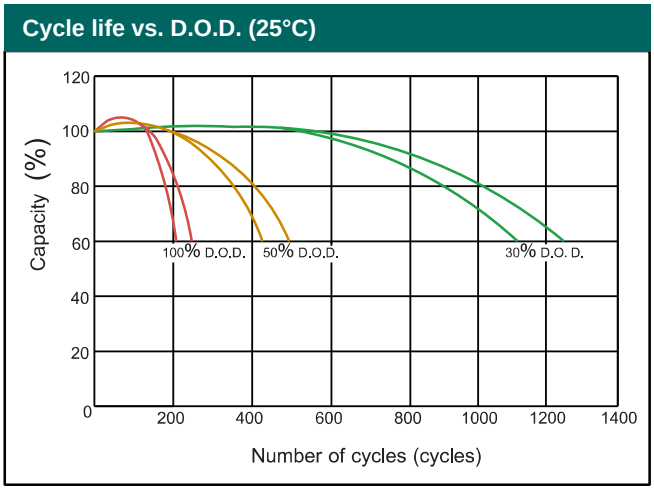
Self-discharge characteristics



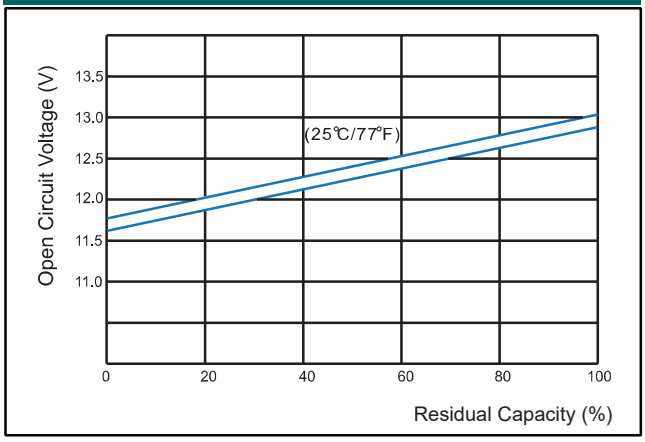
Floating life and temperature



Cycle life vs. D.O.D. (25°C)



OCV and capacity (25°C)



Charging voltage and temperature

