UNIVERSAL BATTERY

UB-12U60.0

(12V60.0AH)



Capacity & electrical

Capacity (25°C)	
10HR(10.8V)	**60Ah**
3HR(10.8V)	**46Ah**
1HR(10.5V)	**33Ah**
Terminal type	**T14**
Internal resistance (Fully charged,25°C)	**Approx.6.5mΩ**
Maximum charging current	
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%**

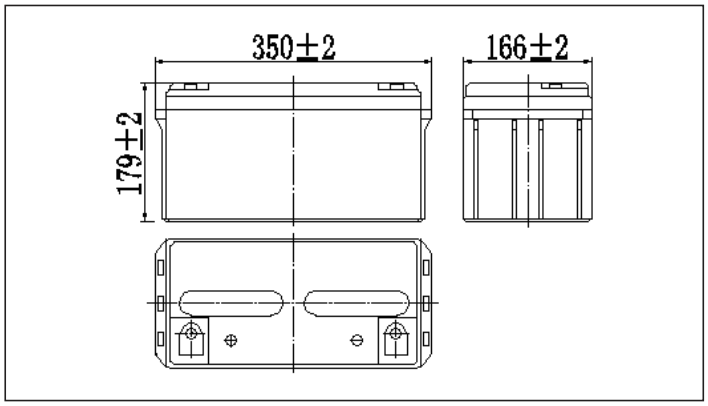
Specifications & technical details

Specifications

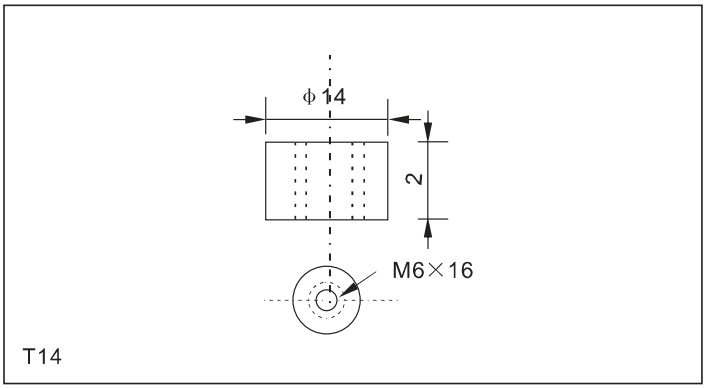
Nominal Voltage	**12V**
Rated capacity (10 hour rate)	**60Ah**
Approx. Weight	**19.30kg (42.50lbs)±3%**

Length	**350±2mm (13.78inch)**
Width	**166±2mm (6.54inch)**
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	131	101	60.3	37.1	21.9	15.8	12.6	10.8	7.41	6.11	3.24
9.90V	127	98.4	59.1	36.5	21.8	15.7	12.5	10.7	7.36	6.10	3.23
10.2V	122	94.8	57.3	35.6	21.6	15.6	12.4	10.6	7.31	6.08	3.22
10.5V	116	91.5	55.9	34.5	21.3	15.5	12.4	10.6	7.26	6.04	3.20
10.8V	110	86.7	53.8	33.4	20.7	15.0	12.0	10.2	7.04	6.00	3.18

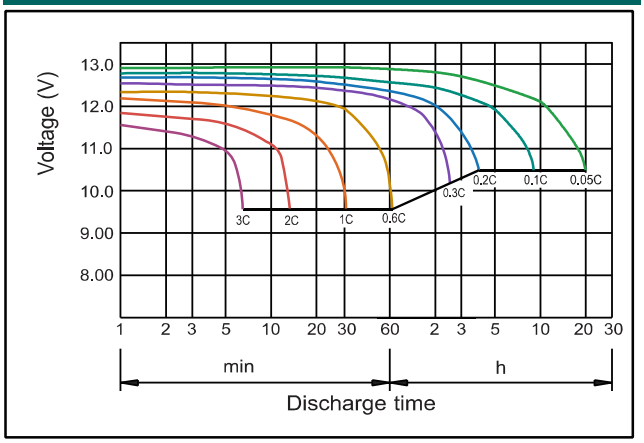
● Constant Power Discharge Characteristics Unit:W(25°C,77°F)

F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	1413	1107	677	423	254	186	148	127	88.0	72.9	38.8
9.90V	1370	1080	663	416	252	185	147	127	87.5	72.8	38.8
10.2V	1314	1040	643	406	250	183	146	126	86.9	72.6	38.7
10.5V	1257	1005	627	393	246	182	145	125	86.2	72.1	38.4
10.8V	1187	952	604	380	240	177	141	121	83.7	71.6	38.2

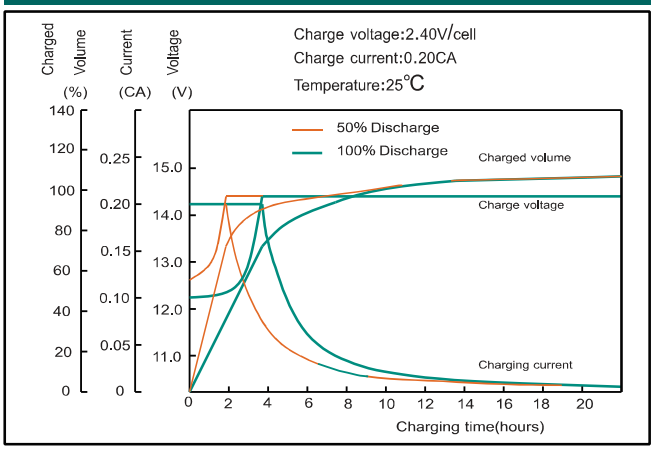
Note: The above characteristics data can be obtained within three charge or discharge cycles.

Performance characteristics

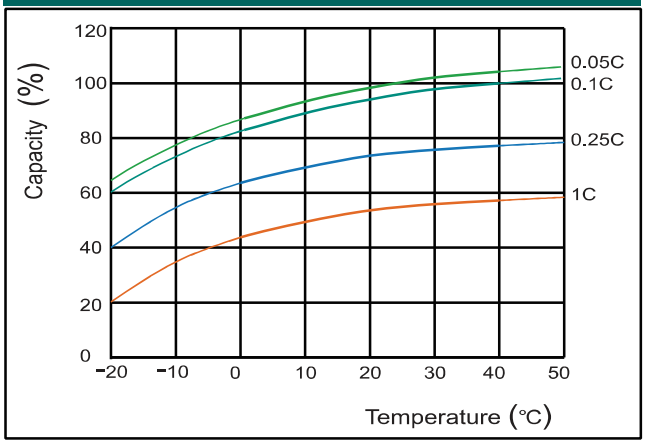
Discharge characteristics (25°C)



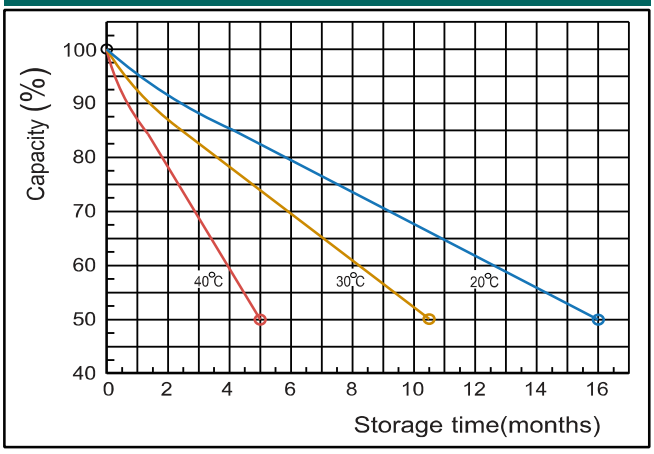
Charge characteristics (25°C)



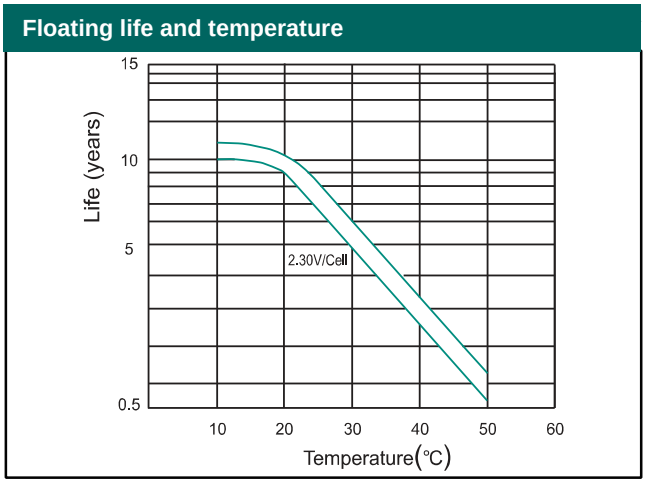
Effect of temperature on capacity



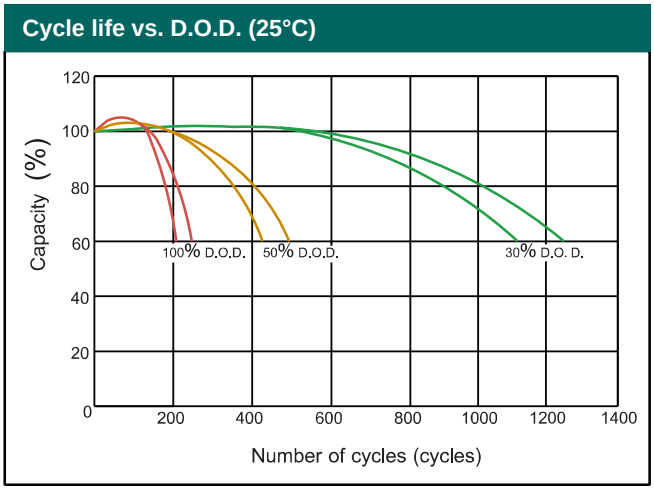
Self-discharge characteristics



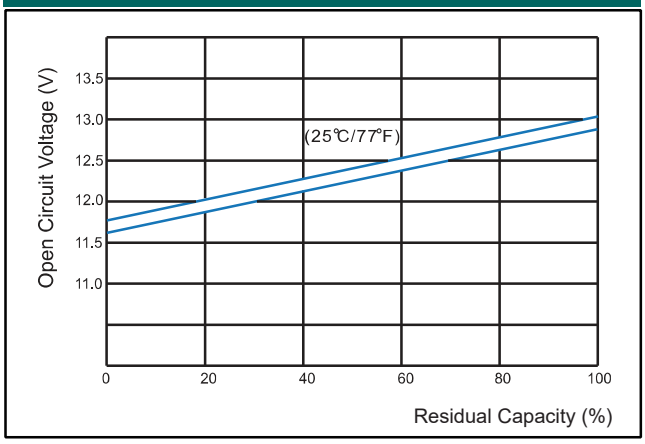
Floating life and temperature



Cycle life vs. D.O.D. (25°C)



OCV and capacity (25°C)



Charging voltage and temperature

