UP12-150Ah

PRODUCT DATA / SPECIFICATIONS & CHARACTERISTICS



12V
Nominal voltage

150Ah
10-hour capacity

SPECIFICATIONS

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

CHARACTERISTICS

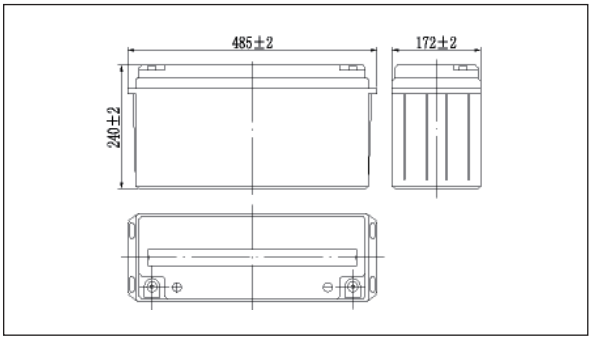
Capacity (25°C): 10HR (10.8V)	150Ah
Capacity (25°C): 3HR (10.8V)	112.5Ah
Capacity (25°C): 1HR (10.5V)	85Ah
Terminal type	T16
Internal resistance (fully charged, 25°C)	Approx. 4mΩ
Capacity / temperature (10HR)	40°C: 102% 25°C: 100% 0°C: 85% -15°C: 65%
Self-discharge (25°C)	3 months: 91% 6 months: 82% 12 months: 65% Remaining capacity
Nominal operating temperature	25°C ± 3°C (77°F ± 5°F)
Operating temperature: discharge	-15°C ~ 50°C (5°F ~ 122°F)
Operating temperature: charge	-10°C ~ 50°C (14°F ~ 122°F)
Operating temperature: storage	-20°C ~ 50°C (-4°F ~ 122°F)
Float charging voltage (25°C)	13.50 to 13.80V Compensation: -18mV/°C
Cyclic charging voltage (25°C)	14.50 to 15.00V Compensation: -30mV/°C
Maximum charging current	45A
Maximum discharge current	1200A (5 sec.)
Designed floating life (20°C)	10 years

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

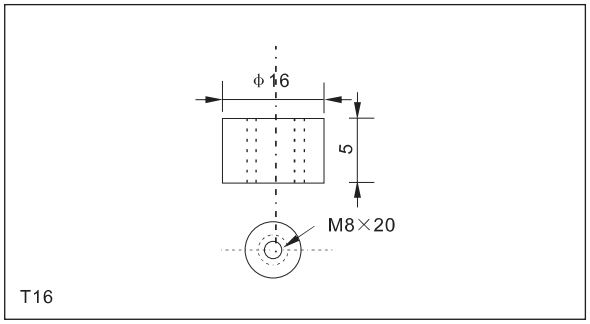
Engineering data

DIMENSIONS / CONSTRUCTION / DISCHARGE TABLES

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

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

Unit: W / 25°C, 77°F

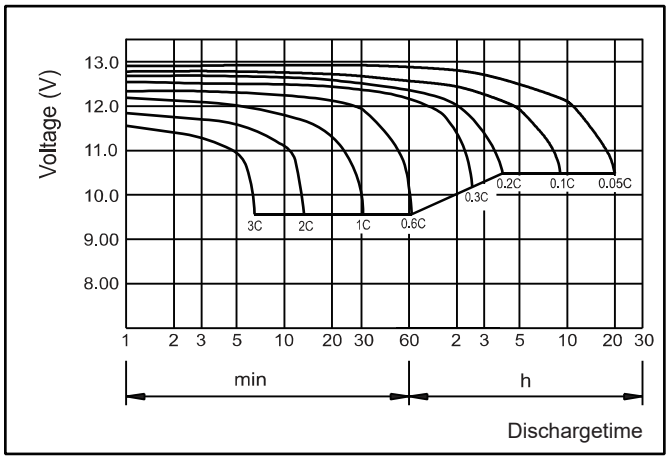
F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	3532	2767	1691	1057	635	464	371	318	220	182	97.1
9.90V	3426	2701	1658	1041	631	461	368	316	219	182	96.9
10.2V	3284	2601	1607	1015	625	458	366	314	217	181	96.6
10.5V	3143	2512	1568	983	616	455	363	312	216	180	96.1
10.8V	2967	2380	1510	951	600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

Performance curves

ELECTRICAL CHARACTERISTICS

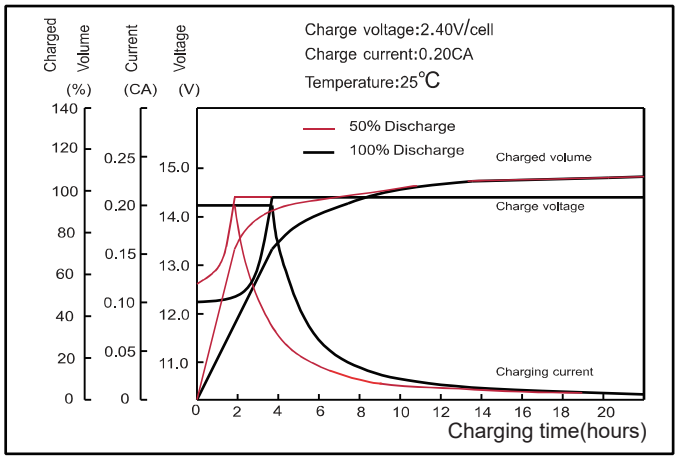
01

Discharge characteristics (25°C)



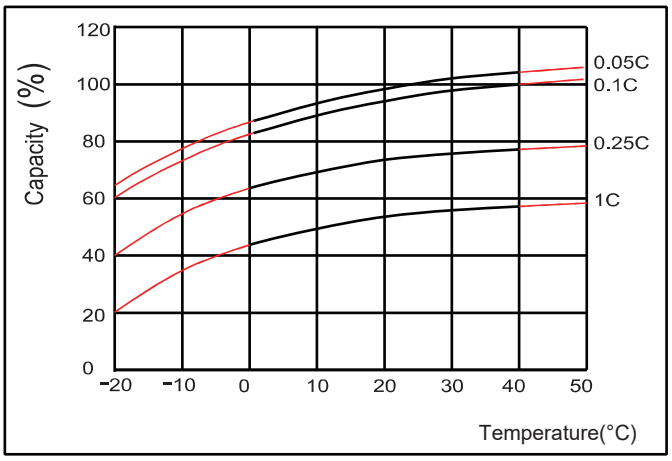
02

Discharge characteristics (25°C)



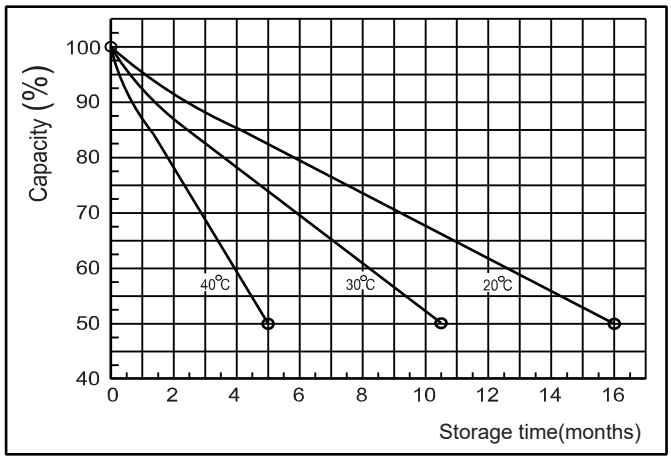
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Effect of temperature on capacity



04

Self-discharge characteristics

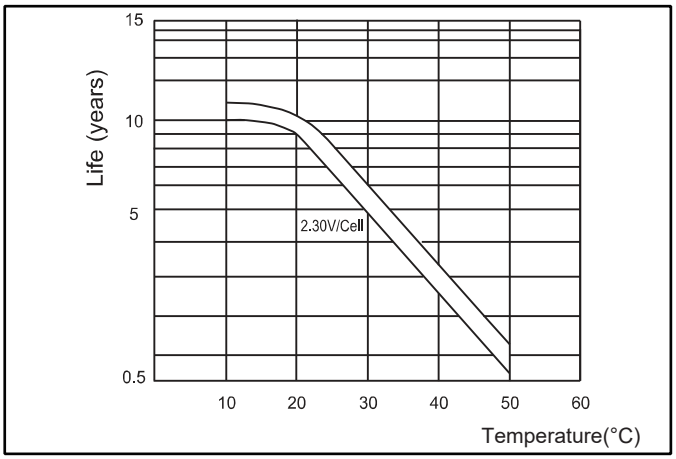


Life & operating curves

SERVICE LIFE / VOLTAGE RELATIONSHIPS

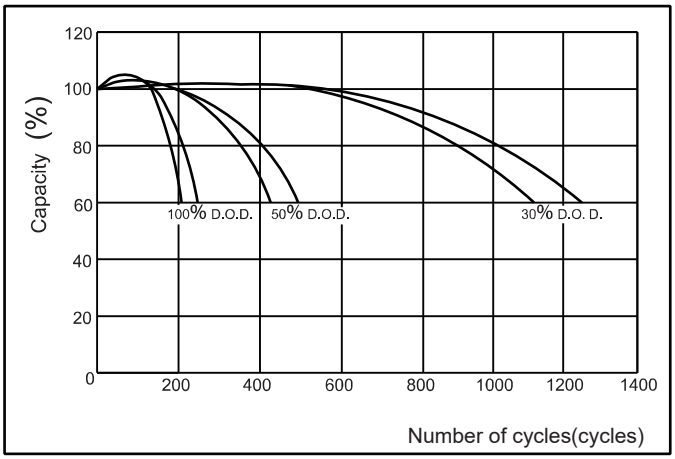
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Floating life on temperature



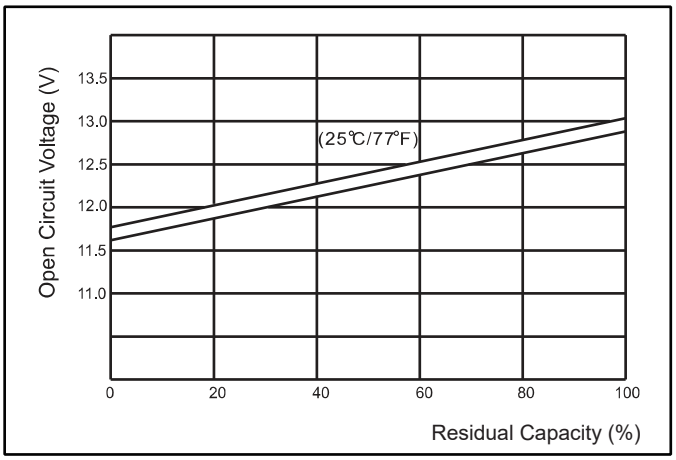
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Cycle life on D.O.D (25°C)



07

OCV and capacity (25°C)



08

Charging voltage and temperature

