

UP12-120Ah

12V120Ah



Specifications

Nominal Voltage		12V
Rated capacity (10 hour rate)		120Ah
Dimensions	Length	409±2mm(16.10inch)
	Width	176±2mm(6.93inch)
	Height	225±2mm(8.86inch)
	Total Height	225±2mm(8.86inch)
Approx. Weight		34.8kg(76.7lbs)±3%

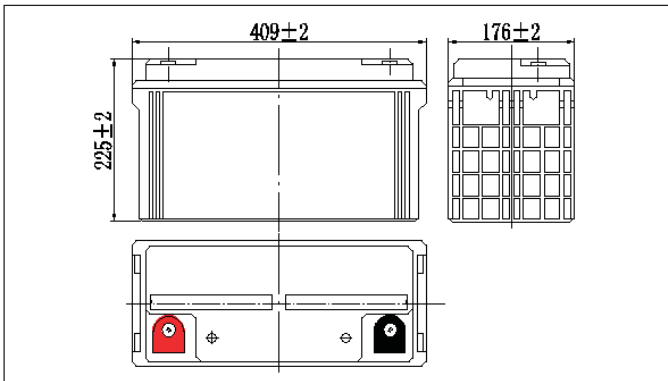
Characteristics

Capacity (25°C)	10HR(10.8V)	120Ah
	3HR(10.8V)	90Ah
	1HR(10.5V)	66Ah
Terminal type		T16A
Internal resistance (Fully charged, 25°C)		Approx. 4mΩ
Capacity affected by temperature (10HR)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-discharge (25°C)	3month	Remaining Capacity: 91%
	6month	Remaining Capacity: 82%
	12month	Remaining Capacity: 65%
Nominal operating temperature		25°C ± 3°C (77°F ± 5°F)
Operating temperature range	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)
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
Maximum charging current		36A
Terminal material		Copper
Maximum discharge current		950A(5 sec.)
Designed floating life(20°C)		10years

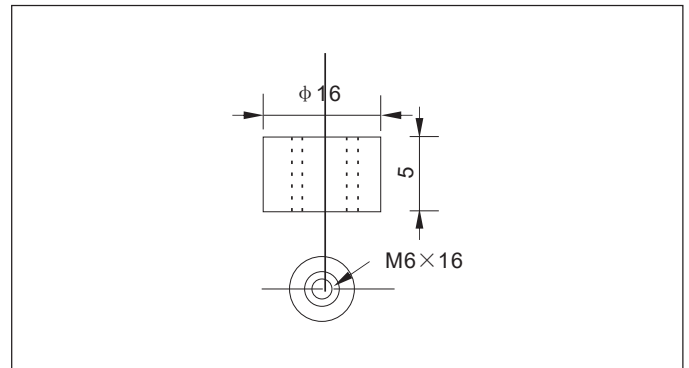
Technical details

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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	262	202	121	74.2	43.8	31.6	25.2	21.5	14.8	12.2	6.47
9.90V	254	197	118	73.0	43.6	31.4	25.1	21.4	14.7	12.2	6.46
10.2V	243	190	115	71.2	43.2	31.2	24.9	21.3	14.6	12.2	6.44
10.5V	233	183	112	69.0	42.6	31.0	24.7	21.1	14.5	12.1	6.40
10.8V	220	173	108	66.7	41.5	30.0	24.0	20.5	14.1	12.0	6.36

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

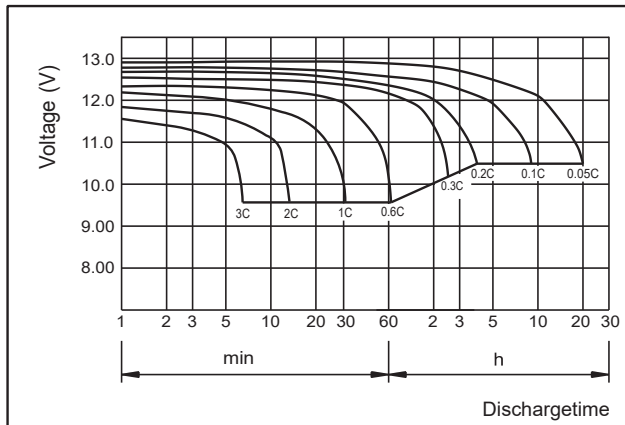
F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	2825	2214	1353	845	508	371	297	255	176	146	77.7
9.90V	2741	2160	1326	833	505	369	295	253	175	146	77.5
10.2V	2628	2081	1285	812	500	367	293	251	174	145	77.3
10.5V	2514	2010	1254	786	493	364	291	250	172	144	76.9
10.8V	2373	1904	1208	761	408	353	282	242	167	143	76.3

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

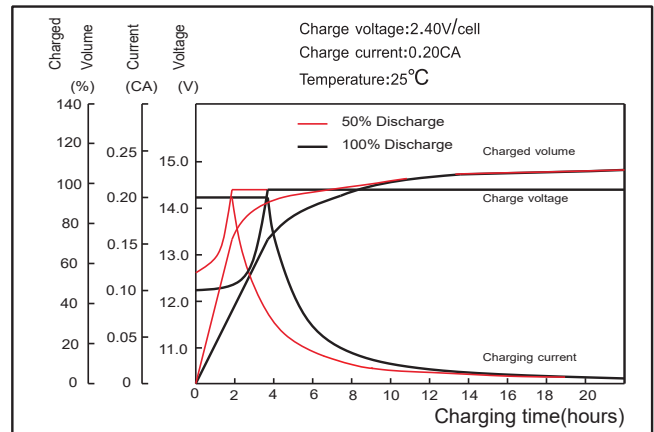
Performance curves

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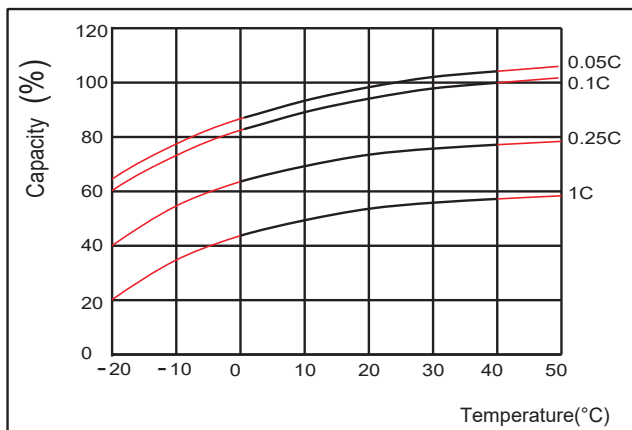
● Discharge characteristics(25°C)



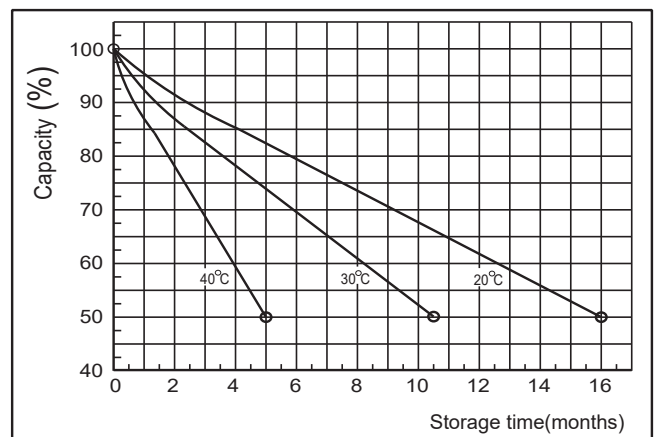
● Discharge characteristics(25°C)



● Effect of temperature on capacity



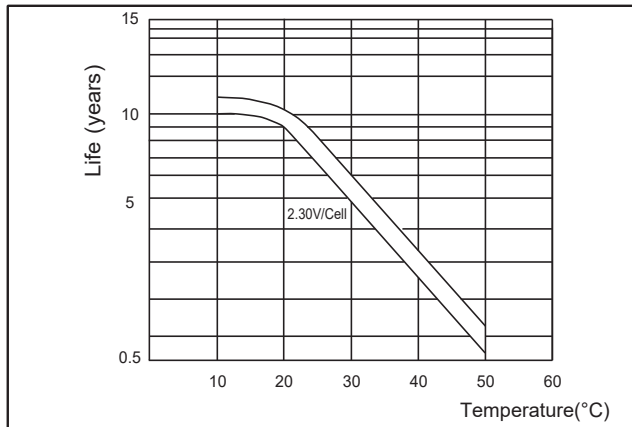
● Self-discharge characteristics



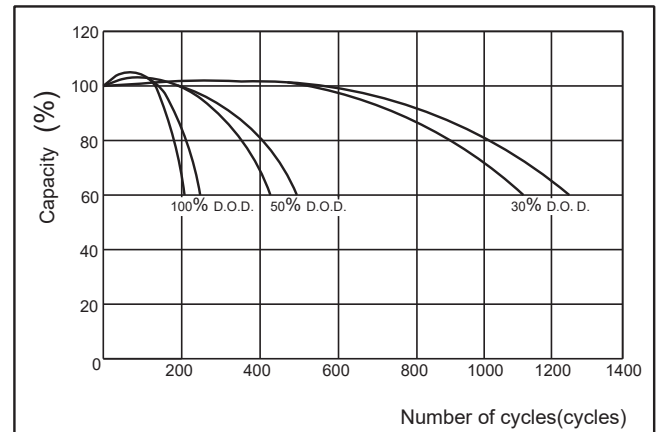
Performance curves

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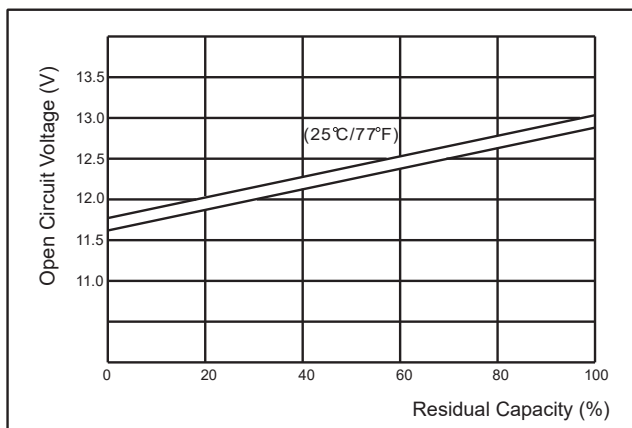
● Floating life on temperature



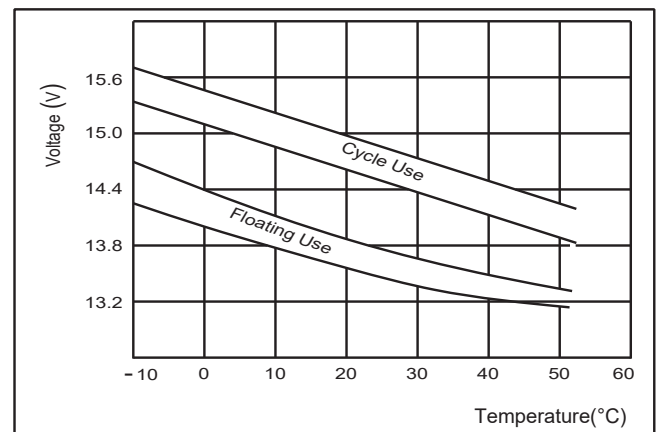
● Cycle life on D.O.D(25°C)



● The relationship for OCV and Capacity(25°C)



● The relationship for Charging voltage and Temperature



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