

UP12-35Ah

12V35Ah



Specifications

Nominal Voltage		12V
Rated capacity (10 hour rate)		35Ah
Dimensions	Length	195±2mm(7.68inch)
	Width	130±2mm(5.12inch)
	Height	155±2mm(6.10inch)
	Total Height	T14:167±2mm(6.57inch) T6:180±2mm(7.09inch)
Approx. Weight		10.50 kg(23.15 lbs)±4%

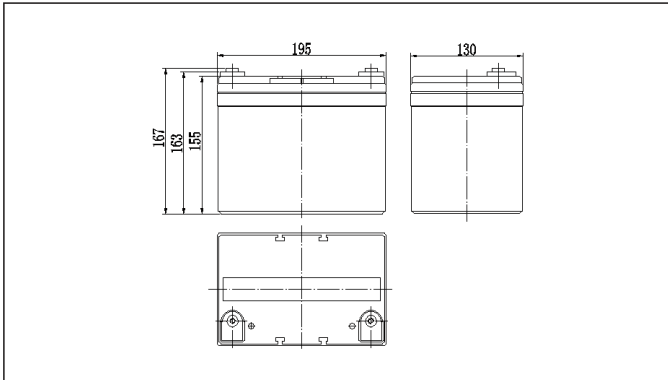
Characteristics

Capacity (25°C)	10HR(10.8V)	35Ah
	3HR(10.8V)	24Ah
	1HR(10.5V)	19Ah
Terminal type		T14/T6
Internal resistance (Fully charged, 25°C)		Approx. 11m Ω
Capacity affected by temperature (10HR)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-discharge (25°C)	3 months	Remaining Capacity:91%
	6 months	Remaining Capacity:82%
	12 months	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		10.5A
Maximum discharge current		330A(5 sec.)
Designed floating life(20°C)		10years

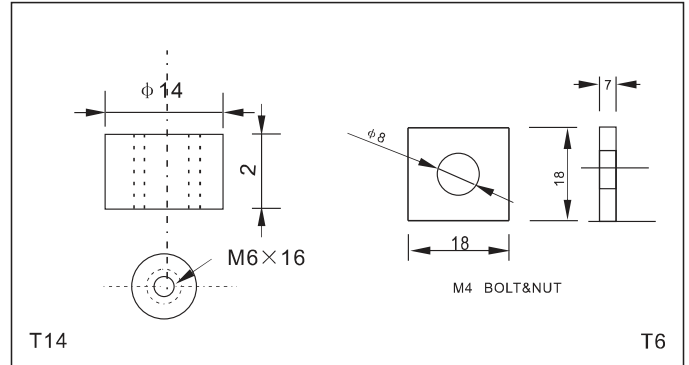
Technical details

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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 / lead

● 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	75.5	58.2	34.9	21.1	12.7	9.11	7.28	6.22	4.27	3.53	1.87
9.90V	73.3	56.8	34.1	21.1	12.6	9.06	7.23	6.18	4.25	3.52	1.87
10.2V	70.2	54.7	33.1	20.6	12.5	9.10	7.20	6.14	4.22	3.51	1.86
10.5V	67.2	52.8	32.2	20.1	12.3	8.94	7.14	6.10	4.19	3.49	1.85
10.8V	63.4	50.1	31.1	19.3	12.0	8.67	6.92	5.91	4.06	3.47	1.84

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

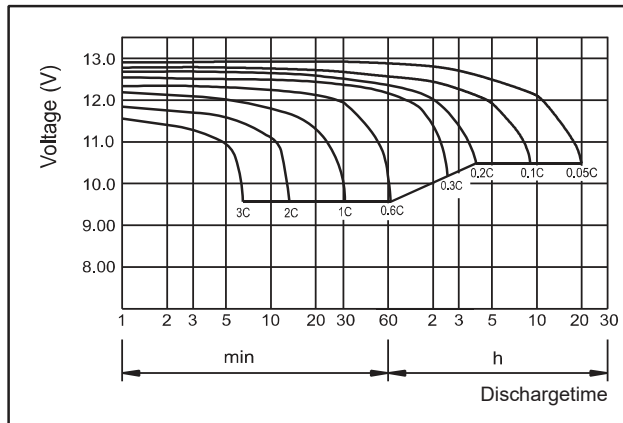
F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	815.9	639.5	390.6	243.6	147	107.1	85.6	73.5	50.8	42.0	22.5
9.90V	791.7	623.7	383.3	240.5	146	107.1	85.2	73.1	50.5	42.0	22.4
10.2V	759.2	600.6	371.7	234.2	144.9	106.1	84.5	72.6	50.2	42.0	21.3
10.5V	725.6	580.7	362.3	226.8	142.8	105.0	83.9	72.1	49.8	41.7	22.2
10.8V	685.7	550.2	348.6	219.5	138.6	102.0	81.4	90.0	48.3	41.4	23.2

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

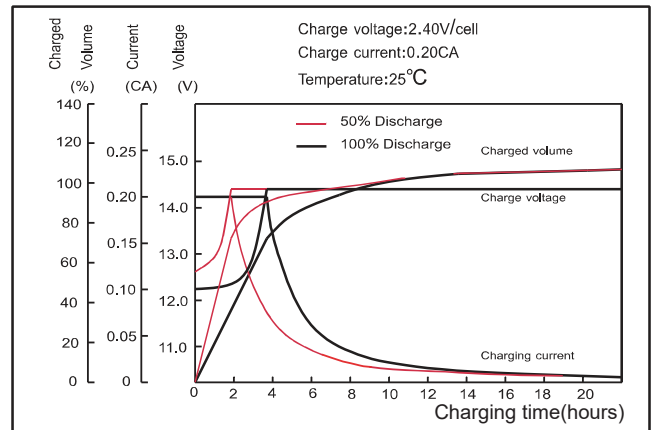
Performance curves

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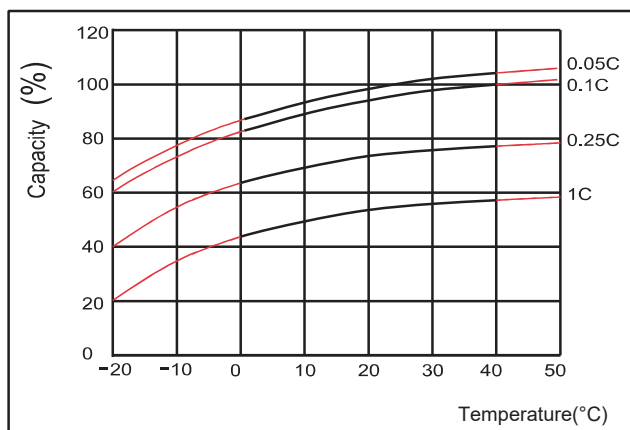
● Discharge characteristics(25°C)



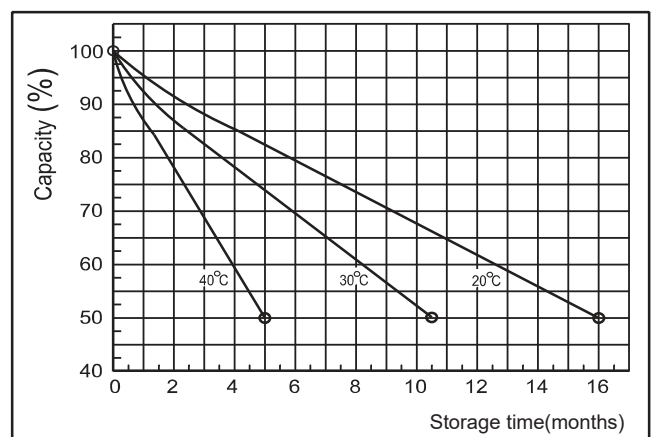
● Discharge characteristics(25°C)



● Effect of temperature on capacity



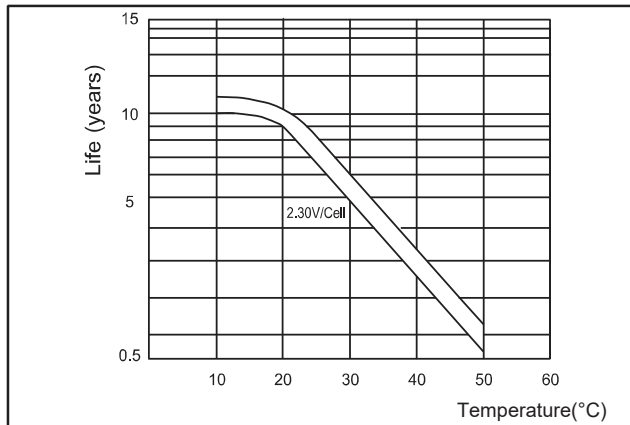
● Self-discharge characteristics



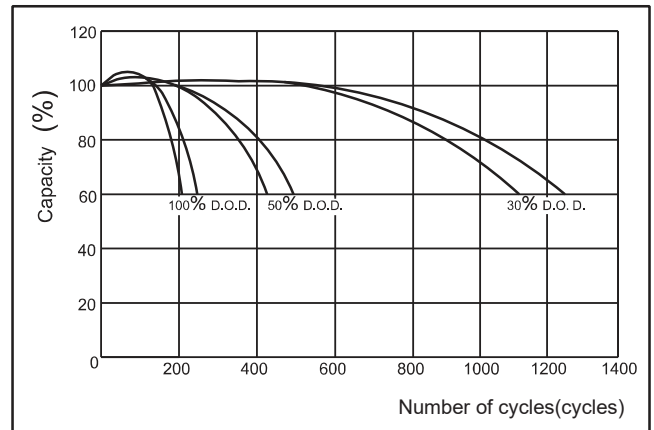
Performance curves

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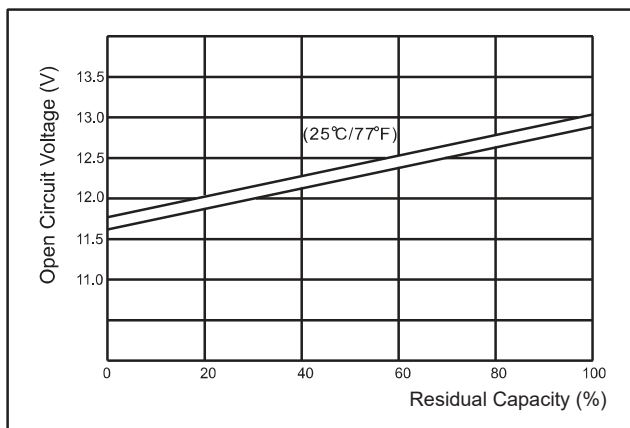
● Floating life on temperature



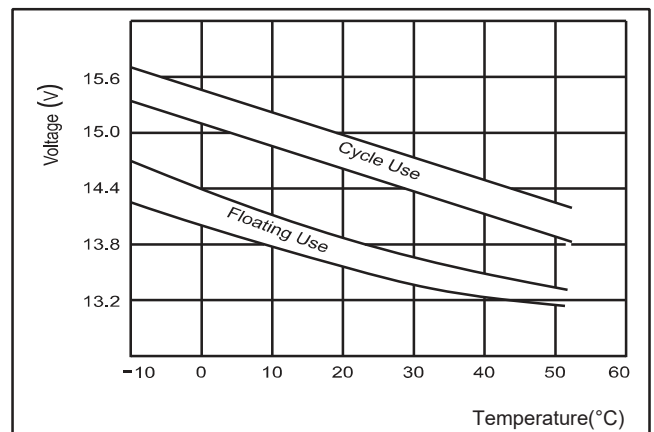
● Cycle life on D.O.D (25°C)



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



● The relationship for Charging voltage and Temperature



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