

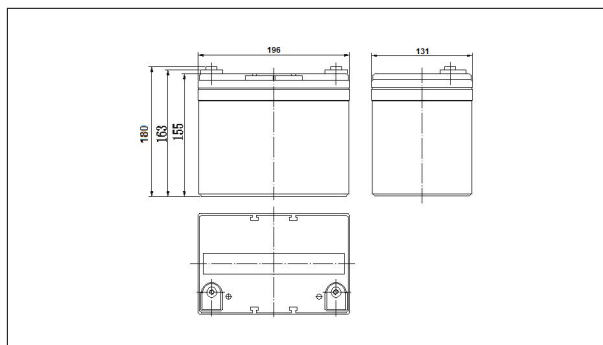
## NP12-35Ah 12V35Ah

### Specifications

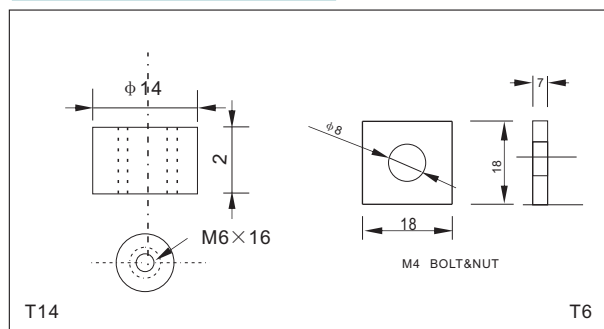
Nominal Voltage		12V
Rated capacity (20 hour rate)		35Ah
Dimensions	Length	196±2mm(7.72inch)
	Width	131±2mm(5.16inch)
	Height	163±2mm(6.42inch)
	Total Height	T14:167±2mm(6.57inch) T6:180±2mm(7.09inch)
Approx. Weight		10.50kg(23.15lbs)±4%



### Outer dimensions (mm)



### Terminal Type (mm)



### Characteristics

Capacity (25°C)	20HR(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		9.9A
Maximum discharge current		330A(5 sec.)
Designed floating life(20°C)		10years

### 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

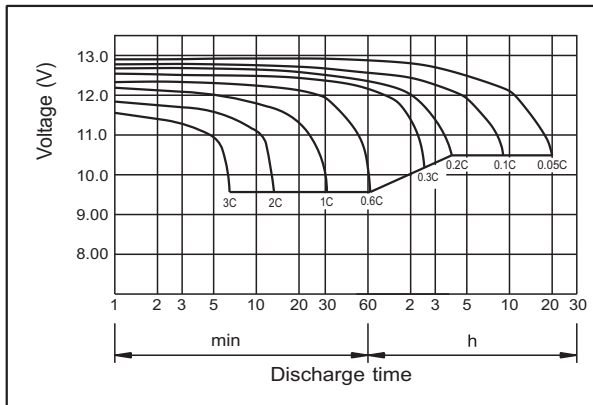
### Constant Power Discharge Characteristics Unit:W(25°C,77°F)

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

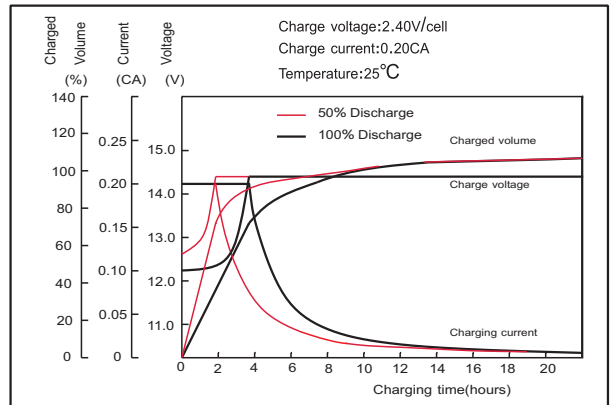
Note: The above characteristics data can be obtained within three charge or discharge cycles.

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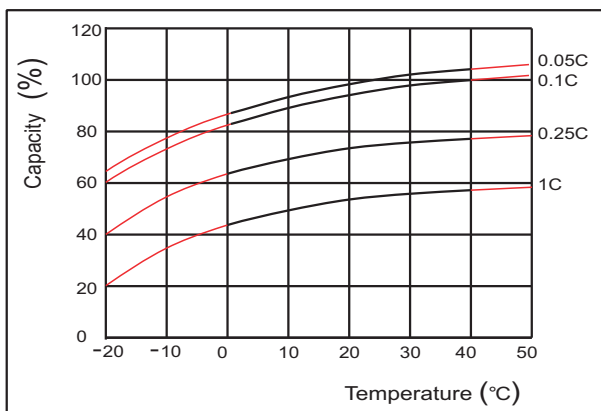
● Discharge characteristics(25°C)



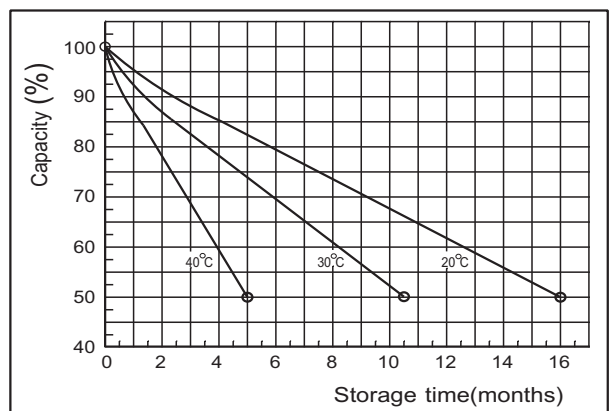
● Charging characteristics (25°C)



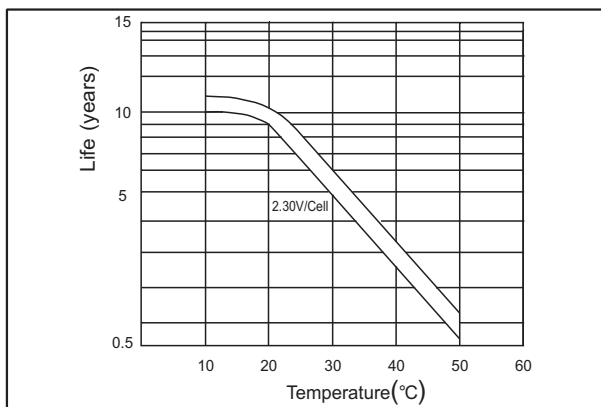
● Temperature effects on Capacity



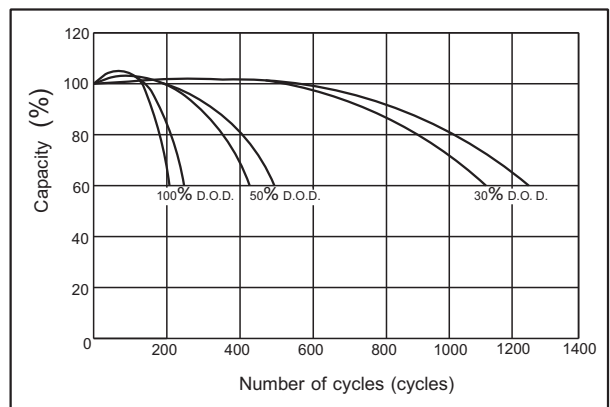
● Self-discharge characteristics



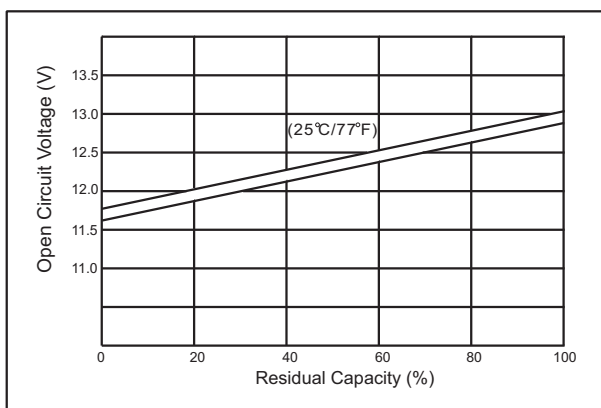
● Floating life on Temperature



● Cycle life on D.O.D (25°C)



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



● The relationship for Charging voltage and Temperature

