

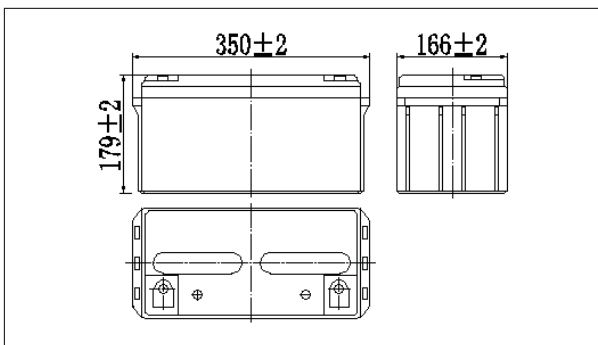
NPG12-60Ah 12V60Ah

● **Specifications**

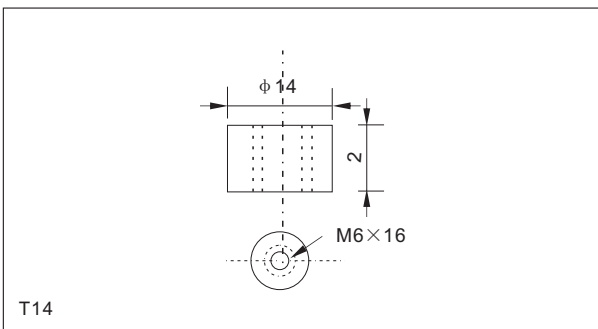
Nominal Voltage		12V
Rated capacity (10 hour rate)		60Ah
Dimensions	Length	350±2mm(13.78inch)
	Width	166±2mm(6.54inch)
	Height	179±2mm(7.05inch)
	Total Height	179±2mm(7.05inch)
Approx. Weight		19.3kg(42.5lbs)±3%



● **Outer dimensions (mm)**



● **Terminal Type (mm)**



● **Characteristics**

Capacity (25°C)	10HR(10.8V)	60Ah
	3HR(10.8V)	45Ah
	1HR(10.5V)	33Ah
Terminal type		T14
Internal resistance (Fully charged,25°C)		Approx.7.5m 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 14.70V Temperature compensation: -30mV/°C
Maximum charging current		12A
Maximum discharge current		600A(5 sec.)
Designed floating life(20°C)		12years

● **Construction**

Component	Positive plate	Negative plate	Container	Cover	Separator	Electrolyte	Safety valve	Terminal
Raw material	Lead dioxide	Lead	ABS	ABS	AGM	Gel	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	117	96.0	58.2	36.0	21.9	15.6	12.2	10.4	7.34	6.11	3.24
9.90V	113	93.7	57.0	35.5	21.8	15.5	12.2	10.3	7.30	6.10	3.23
10.2V	109	90.2	55.3	34.6	21.6	15.4	12.1	10.3	7.25	6.08	3.22
10.5V	104	87.2	54.0	33.5	21.3	15.3	12.0	10.2	7.20	6.04	3.20
10.8V	98.3	82.6	52.0	32.4	20.7	15.0	11.6	9.89	6.98	6.00	3.18

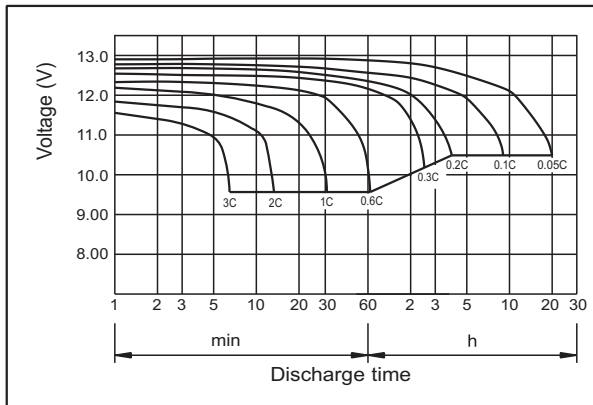
● **Constant Power Discharge Characteristics Unit:W(25°C,77°F)**

F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	1264	1054	653	410	254	184	144	123	87.2	72.9	38.8
9.90V	1226	1029	640	404	252	182	143	122	86.7	72.8	38.8
10.2V	1175	991	620	394	250	181	142	121	86.1	72.6	38.7
10.5V	1125	957	605	382	246	180	141	121	85.5	72.1	38.4
10.8V	1061	907	583	369	240	176	137	117	83.0	71.6	38.2

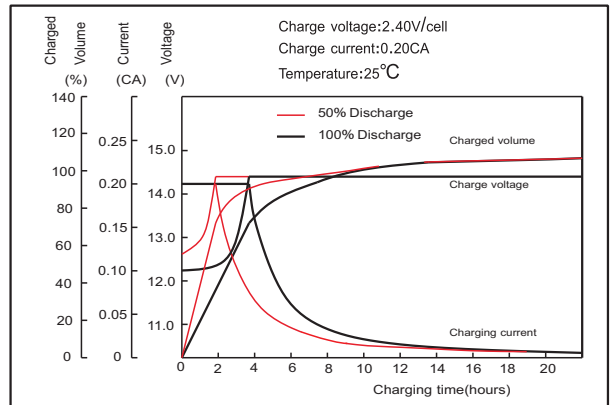
Note: The above characteristics data can be obtained within three charge or discharge cycles.

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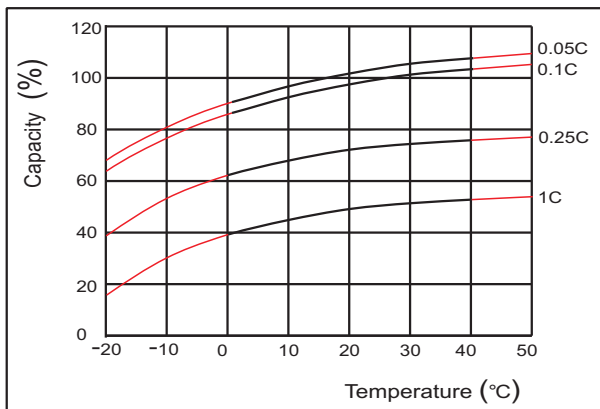
● Discharge characteristics(25°C)



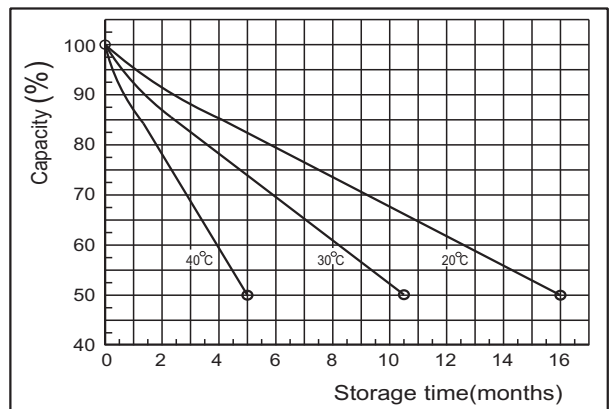
● Charging characteristics (25°C)



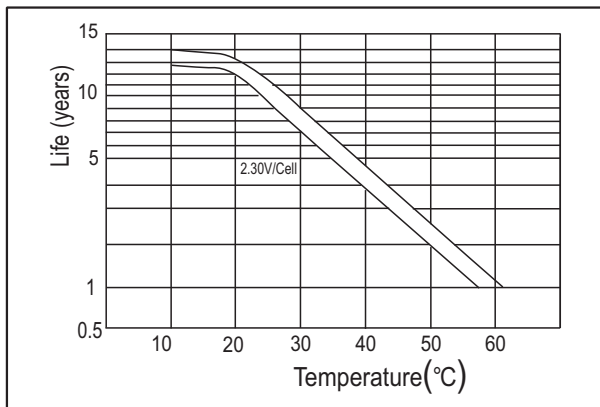
● Temperature effects on Capacity



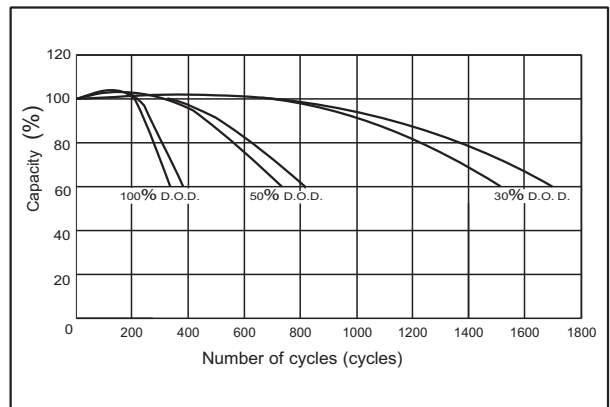
● Self-discharge characteristics



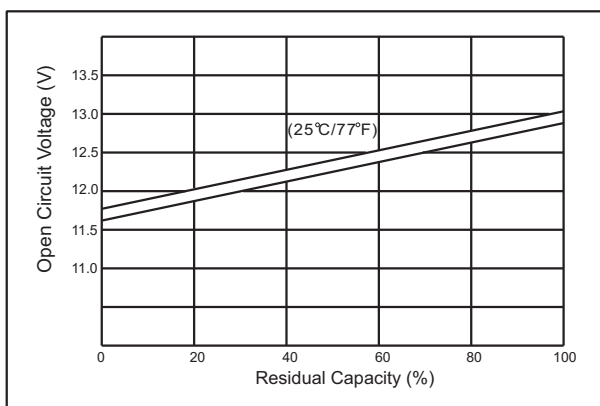
● Floating life on Temperature



● Cycle life on D.O.D (25°C)



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



● The relationship for Charging voltage and Temperature

