

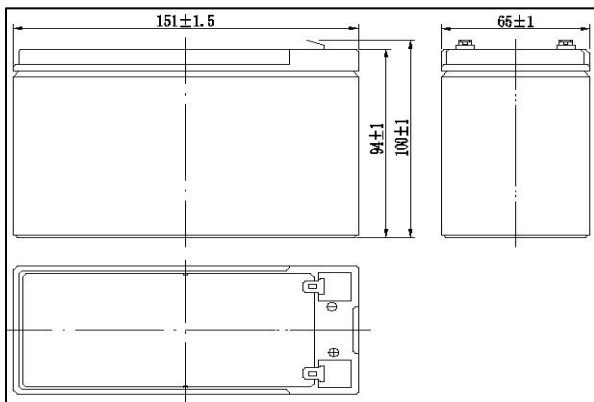
NPD12-7.2Ah 12V7.2Ah



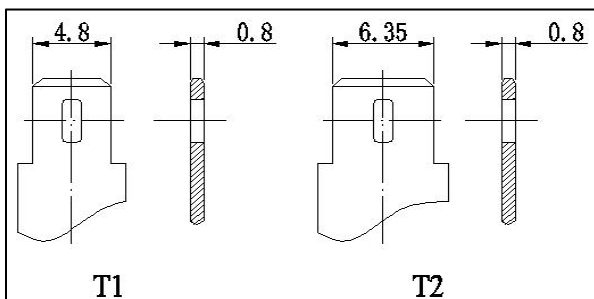
● **Specifications**

Nominal Voltage		12 V
Rated capacity(20HR)		7.2Ah
Dimension	Length	151±1.5mm (5.94inch)
	Width	65±1mm (2.56inch)
	Height	94±1mm (3.70inch)
	Total Height	100±1mm (3.94inch)
Approx. Weight		2.65kg (5.51lbs)±4%

● **Outer dimensions (mm)**



● **Terminal Type (mm)**



● **Characteristics**

Capacity (25°C)	20HR(10.5V)	7.2Ah
	10HR(10.5V)	6.8Ah
	1HR(9.60V)	4.5Ah
Terminal type		T1/T2
Internal resistance (Fully charged, 25°C)		Approx. 20mΩ
Capacity affected by temperature (20HR)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-discharge (25°C)	3 month	Remaining Capacity: 91%
	6 month	Remaining Capacity: 82%
	12 month	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		2.16A
Maximum discharge current		108A(5 sec.)
Designed floating life(20°C)		Up to 8 years

● **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 (A, 25°C)**

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	27.9	17.7	13.8	7.77	4.78	2.62	1.81	1.50	1.27	0.69	0.37
9.90V	27.0	17.1	13.5	7.62	4.71	2.60	1.80	1.49	1.27	0.69	0.37
10.2V	25.9	16.4	13.0	7.39	4.59	2.58	1.79	1.48	1.26	0.69	0.37
10.5V	24.8	15.7	12.5	7.21	4.50	2.54	1.77	1.47	1.25	0.68	0.37
10.8V	23.4	14.8	11.9	6.94	4.36	2.47	1.72	1.42	1.21	0.67	0.36

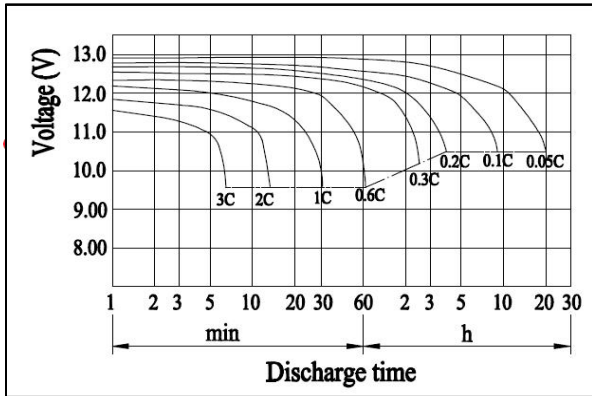
● **Constant Power Discharge Characteristics (Watt, 25°C)**

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	311	199	157	89.1	55.4	30.6	21.5	17.8	15.2	8.30	4.45
9.90V	302	193	154	87.3	54.5	30.4	21.4	17.7	15.1	8.26	4.43
10.2V	289	185	148	84.6	53.2	30.1	21.2	17.6	15.0	8.22	4.41
10.5V	277	177	143	82.6	52.1	29.7	21.1	17.5	14.9	8.17	4.38
10.8V	261	167	135	79.6	50.5	28.9	20.4	17.0	14.5	8.01	4.29

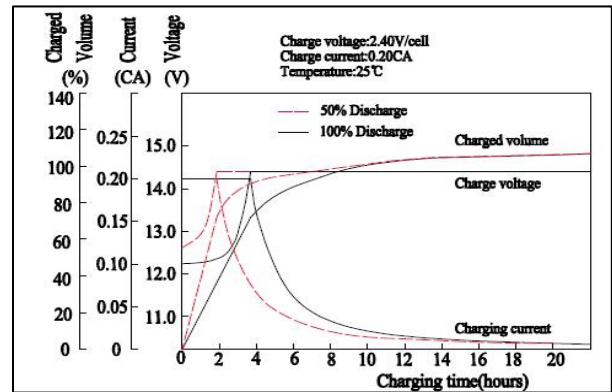
Note: The above characteristics data can be obtained within three charge or discharge cycles.

NPD12-7.2Ah 12V7.2Ah

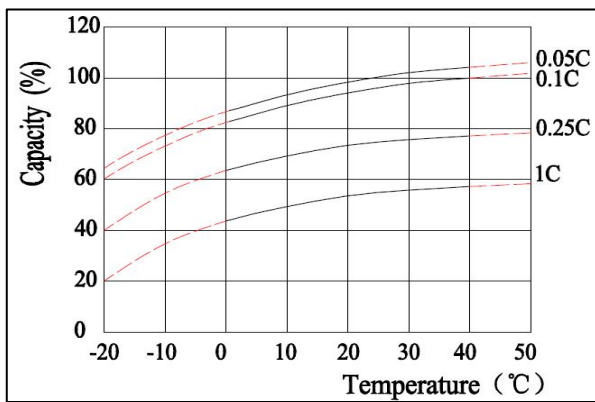
● Discharge characteristics(25°C)



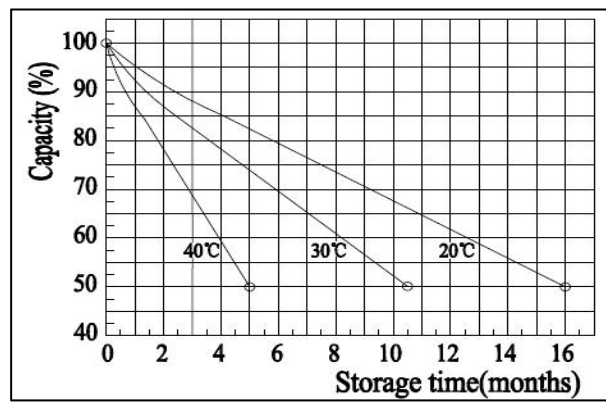
● Charging characteristics



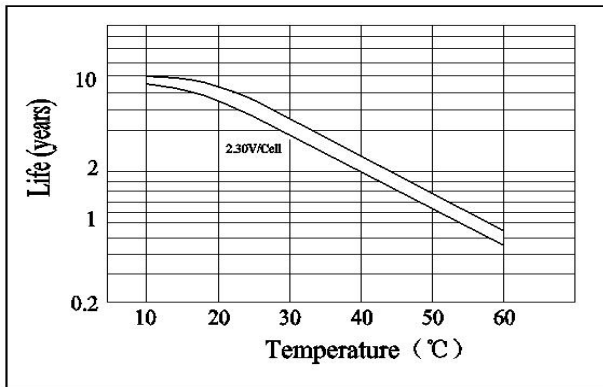
● Temperature effects on float life



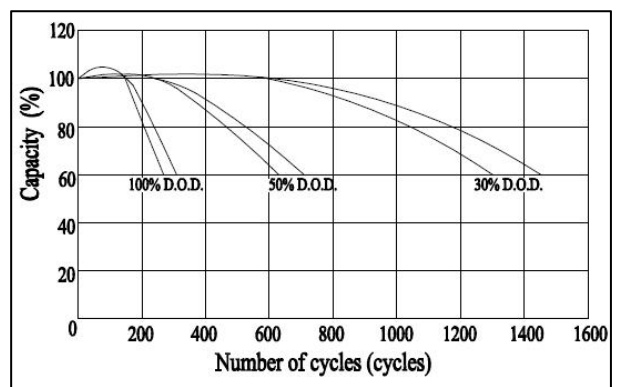
● Self-discharge Characteristics



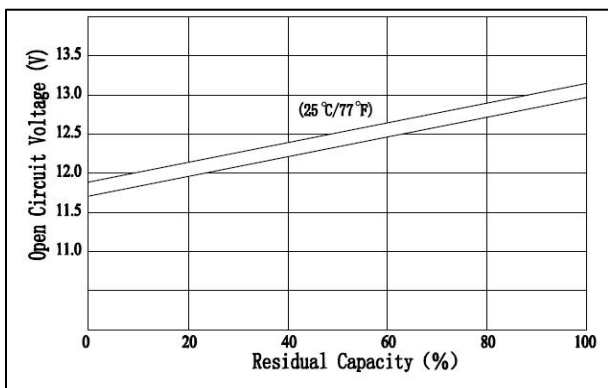
● Floating Life on Temperature



● Cycle Life on D.O.D(25°C)



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



● Floating Life on Temperature

