NEWSTAR

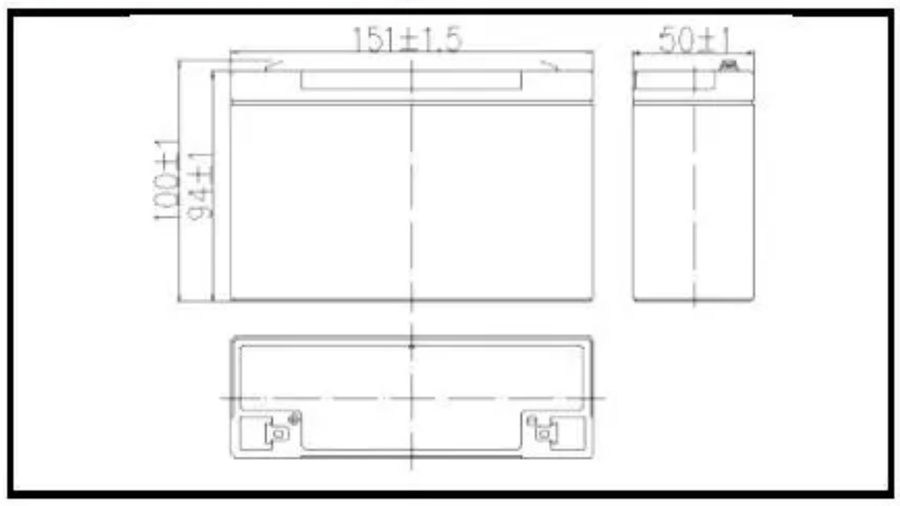
NP6-10Ah 6V10Ah

Valve Regulated Lead Acid Battery

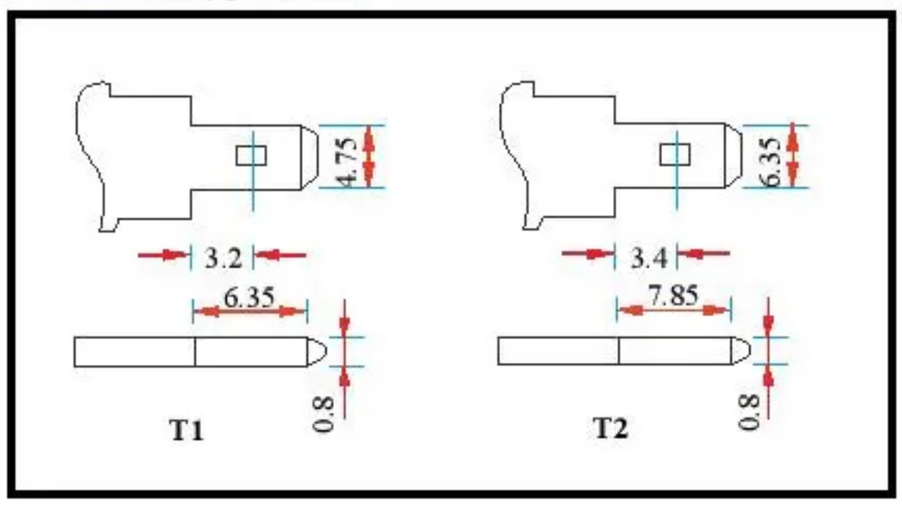
Specifications

Nominal voltage		6V (3 cells per unit)
Rated capacity (20HR)		10Ah/5.25V
Dimensions	Length	151±1.5mm (5.94inch)
	Width	50±1mm (1.97inch)
	Height	94±1mm (3.70inch)
	Total height	100±1mm (3.94inch)
Approx. weight		1.55kg (3.42lbs)±4%

Outer dimensions (mm)



Terminal type (mm)



Characteristics

Capacity (25°C)	20HR (5.25V)	10Ah
	10HR (5.25V)	9.3Ah
	1HR (4.80V)	6.0Ah
Terminal type		T1/T2
Internal resistance (Fully charged, 25°C)		Approx. 12mΩ
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)		6.80 to 6.90V Temperature compensation: -9mV/°C/Block
Cyclic charging voltage (25°C)		7.25 to 7.50V Temperature compensation: -15mV/°C/Block
Maximum charging current		3A
Maximum discharge current		150A (5 sec.)
Design life	5 years for floating (25°C)	
	Eurobat (20°C): 3-5 years, standard commercial.	

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: Ampere/Block (at 25°C, 77°F)

F.V/Time	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
4.80V	38.2	24.2	18.9	10.7	6.55	3.60	2.48	2.05	1.74	0.95	0.51
4.95V	37.1	23.5	18.4	10.4	6.45	3.56	2.46	2.04	1.73	0.94	0.51
5.10V	35.5	22.5	17.8	10.1	6.29	3.53	2.45	2.02	1.72	0.94	0.50
5.25V	34.0	21.5	17.2	9.87	6.16	3.48	2.43	2.01	1.71	0.93	0.50
5.40V	32.1	20.3	16.3	9.51	5.97	3.39	2.36	1.95	1.66	0.91	0.49

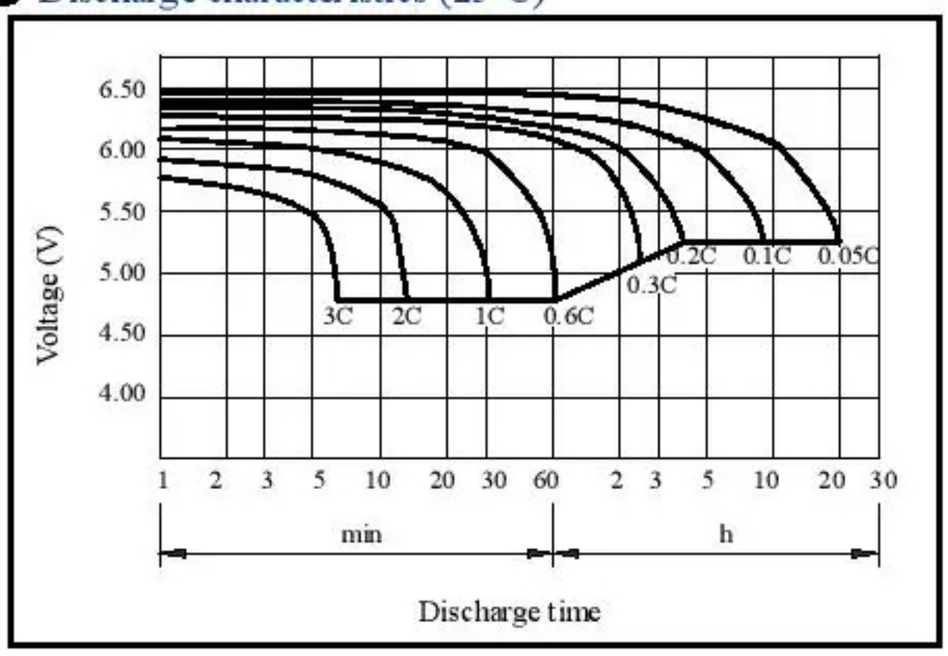
Constant power discharge characteristics unit: Watt/Block (at 25°C, 77°F)

F.V/Time	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
4.80V	213	136	108	61.0	37.9	21.0	14.7	12.2	10.4	5.68	3.05
4.95V	207	132	105	59.8	37.4	20.8	14.6	12.1	10.4	5.66	3.03
5.10V	198	127	101	58.0	36.4	20.7	14.5	12.1	10.3	5.63	3.02
5.25V	190	121	97.8	56.6	35.7	20.3	14.4	12.0	10.2	5.60	3.00
5.40V	179	115	92.6	54.5	34.6	19.8	14.0	11.6	9.9	5.49	2.94

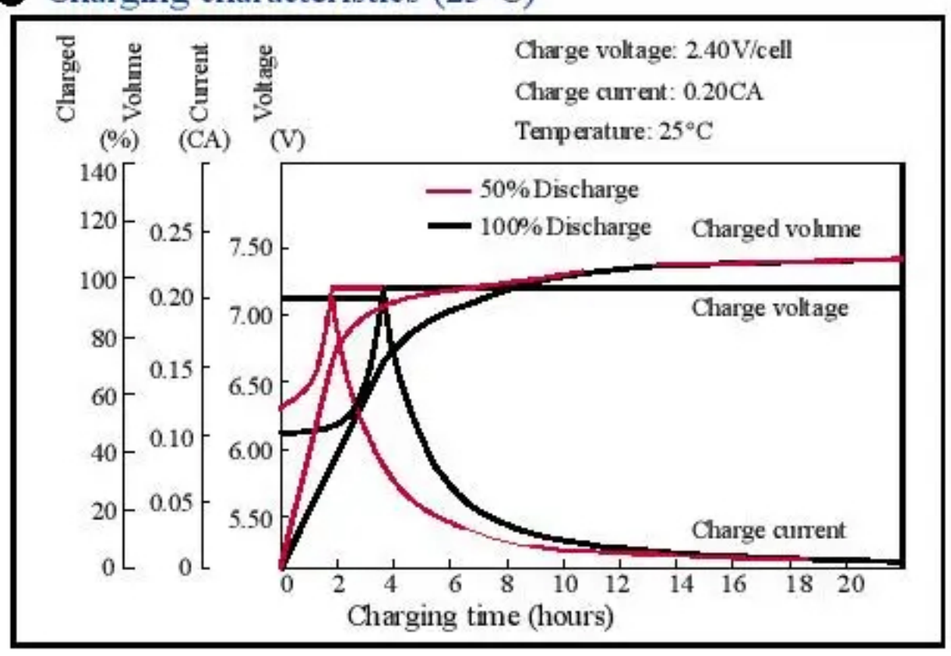
Note 1: Above characteristics data can be obtained within three charge and discharge cycles.

NEWSTAR NP6-10Ah 6V10Ah

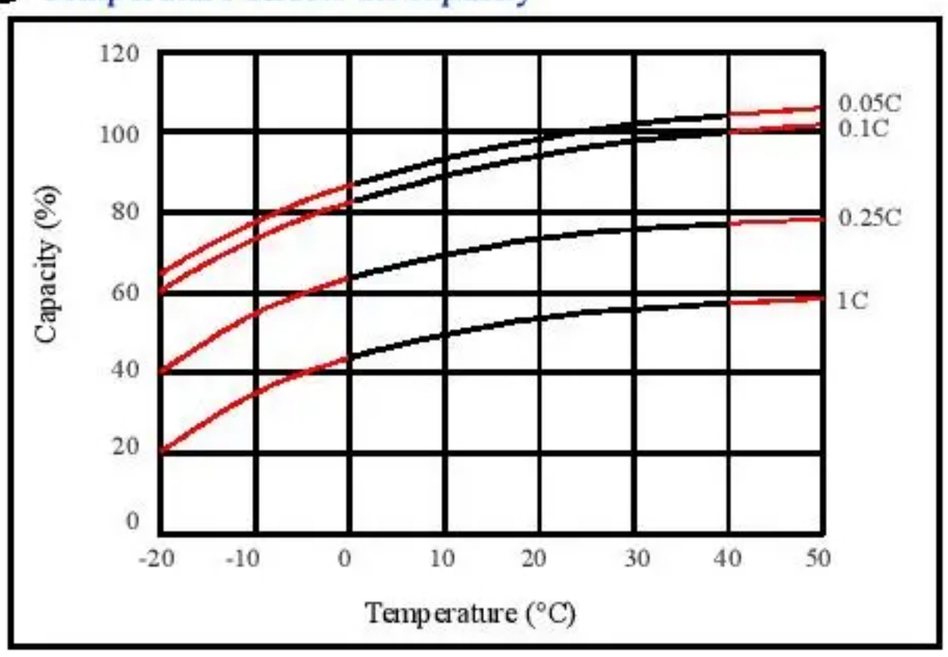
Discharge characteristics (25°C)



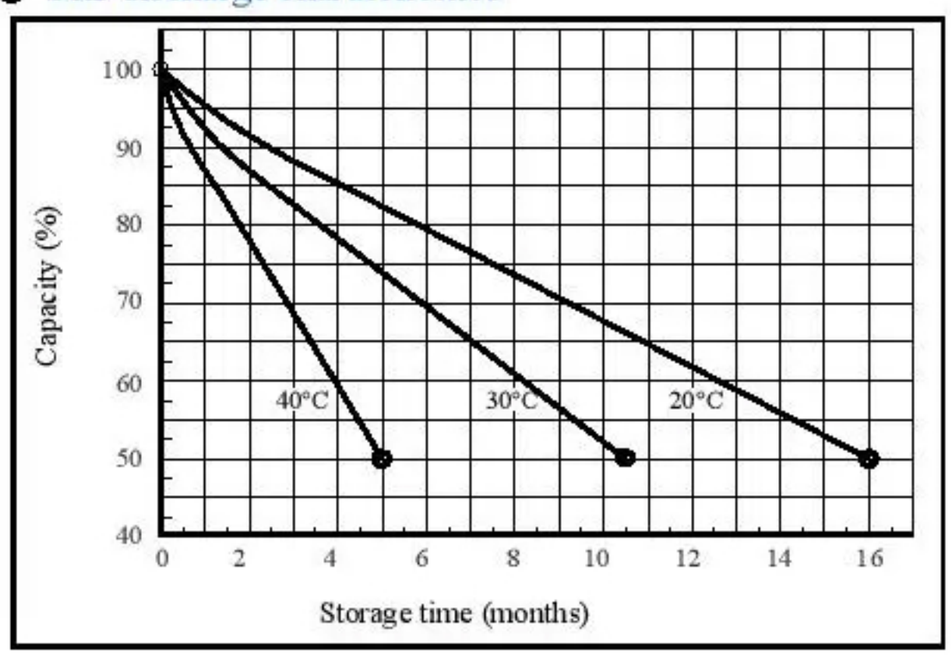
Charging characteristics (25°C)



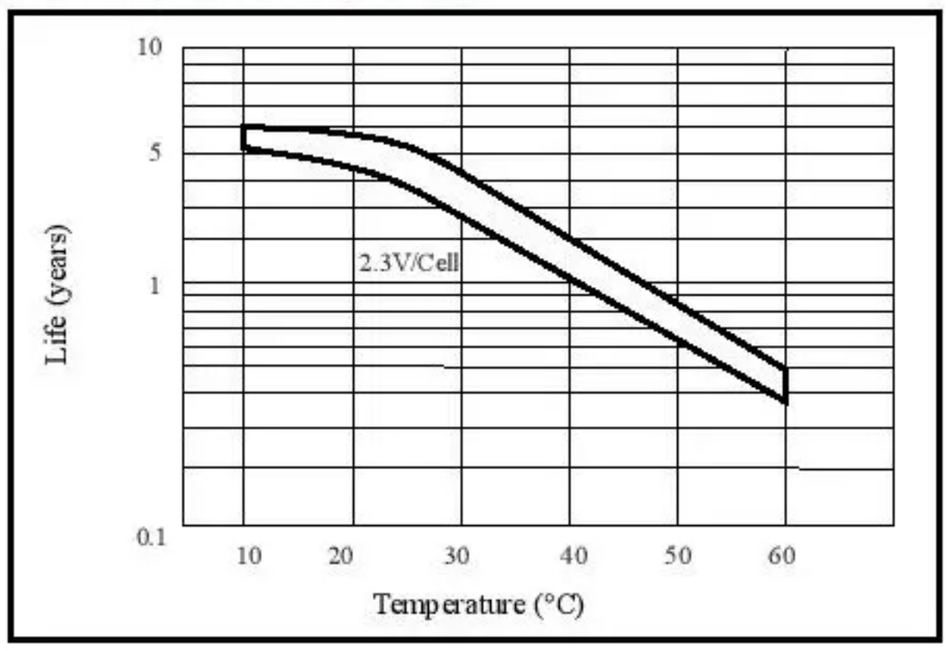
Temperature effects on capacity



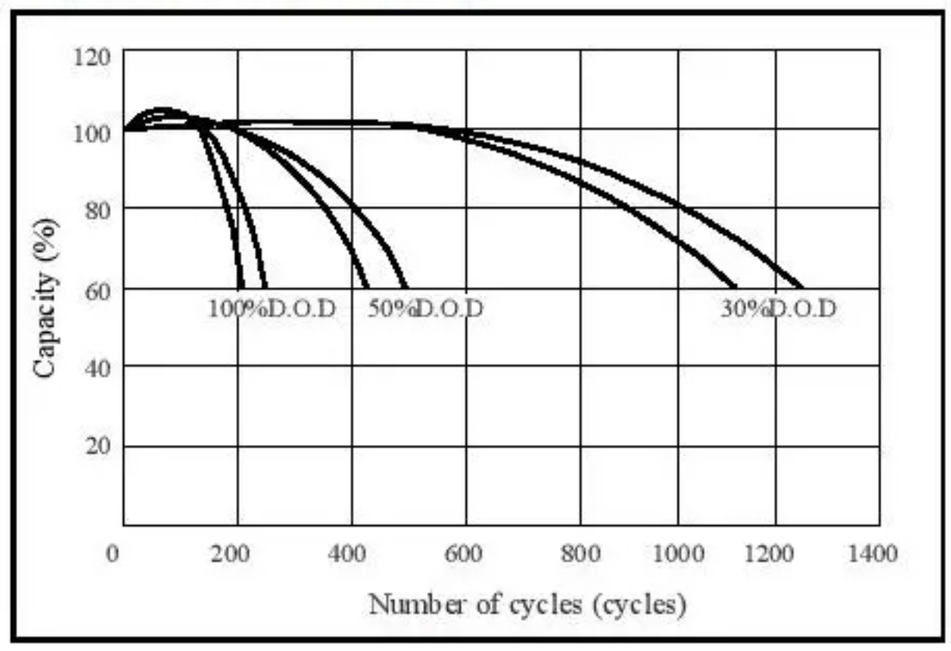
Self-discharge characteristics



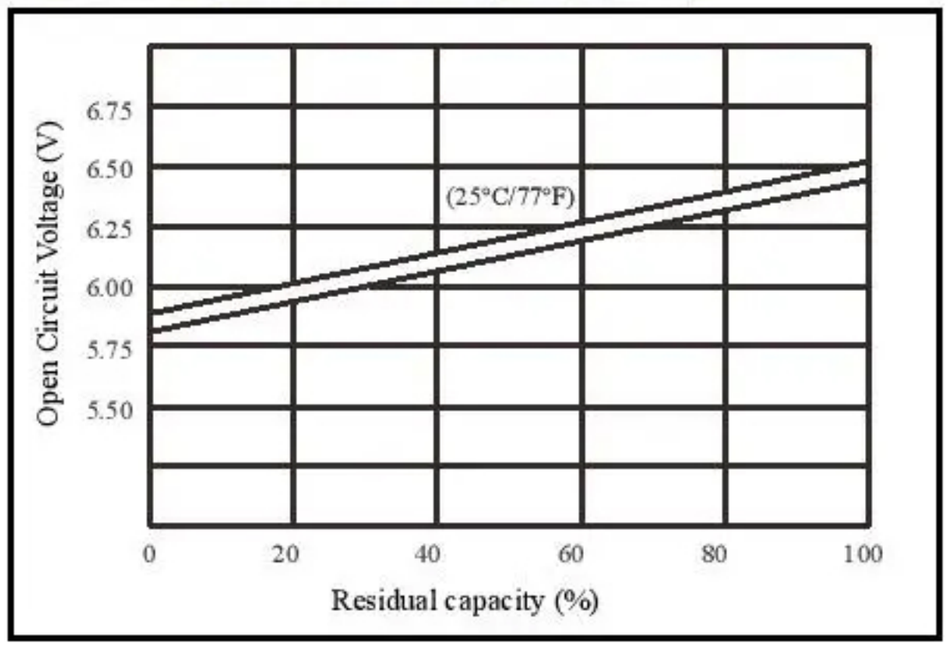
Floating life on temperature



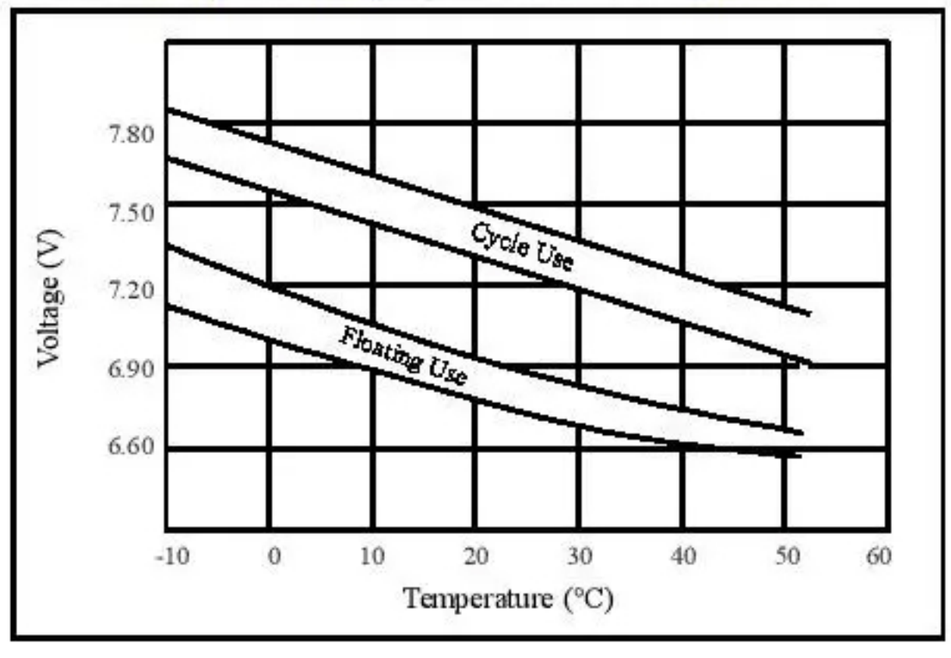
Cycle life on D.O.D (25°C)



Relationship for OCV and capacity (25°C)



Relationship for charging voltage and temperature



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