

NPG6-150Ah 6V150Ah

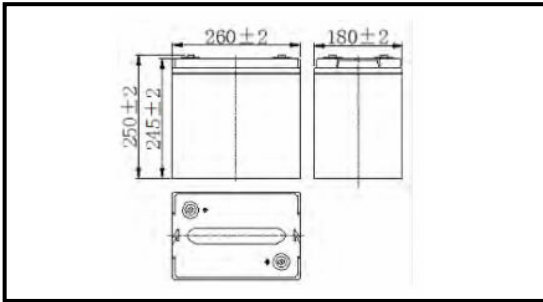
Valve Regulated Lead Acid Battery



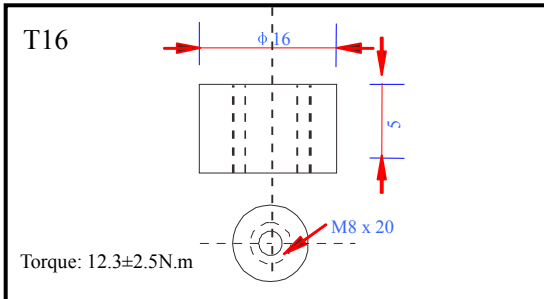
Specifications

Nominal voltage	6V (3 cells per unit)	
Rated capacity (10HR)	150Ah/5.4V	
Dimensions	Length	260±2mm (10.24inch)
	Width	180±2mm (7.09inch)
	Height	245±2mm (9.65inch)
	Total height	250±2mm (9.84inch)
Approx. weight	25.50kg (56.20lbs)±3%	

Outer dimensions (mm)



Terminal type (mm)



Characteristics

Capacity (25°C)	10HR (5.4V)	150Ah
	3HR (5.4V)	112.5Ah
	1HR (5.25V)	83Ah
Terminal type		T16
Internal resistance (Fully charged, 25°C)		Approx. 2.5mΩ
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)		6.75 to 6.90V Temperature compensation: -9mV/°C/Block
Cyclic charging voltage (25°C)		7.20 to 7.35V Temperature compensation: -15mV/°C/Block
Maximum charging current		30A
Maximum discharge current		1200A (5 sec.)
Design life	12 years for floating (25°C)	
	Eurobat (20°C):10/12 years, long life.	

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: Ampere/Block (at 25°C, 77°F)

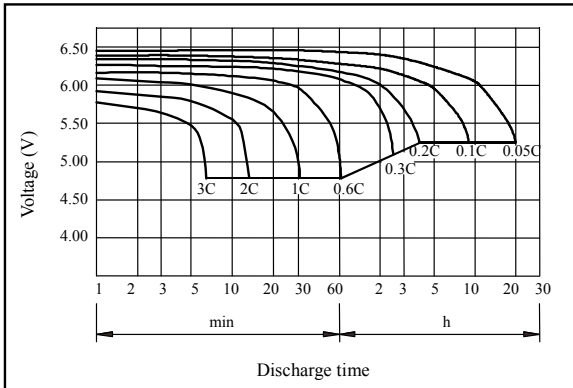
F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
4.80V	293	240	146	90.0	54.8	39.0	30.6	26.0	18.4	15.3	8.09
4.95V	284	234	143	88.7	54.5	38.8	30.4	25.9	18.3	15.2	8.08
5.10V	272	226	138	86.4	54.0	38.5	30.2	25.7	18.1	15.2	8.05
5.25V	260	218	135	83.7	53.2	38.3	30.0	25.5	18.0	15.1	8.01
5.40V	246	206	130	81.0	51.8	37.5	29.1	24.7	17.5	15.0	7.95

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

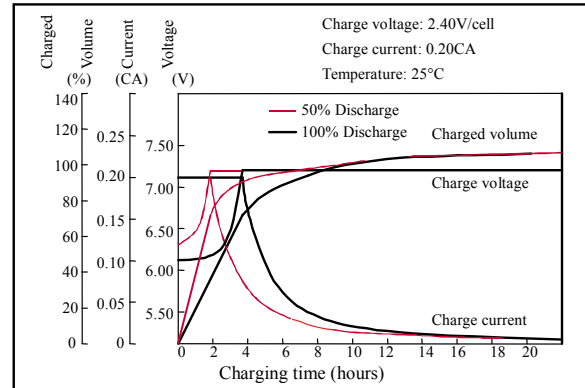
F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
4.80V	1580	1318	816	513	317	229	180	154	109	91.2	48.6
4.95V	1532	1286	800	505	315	228	179	153	108	91.0	48.5
5.10V	1469	1239	775	492	313	226	178	152	108	90.7	48.3
5.25V	1406	1196	757	477	308	225	176	151	107	90.2	48.0
5.40V	1327	1133	729	462	300	220	171	146	104	89.6	47.7

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

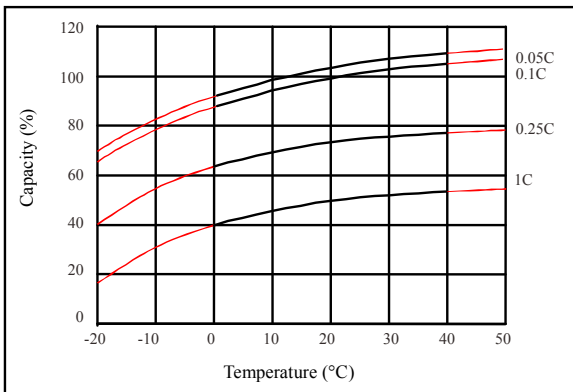
● Discharge characteristics (25°C)



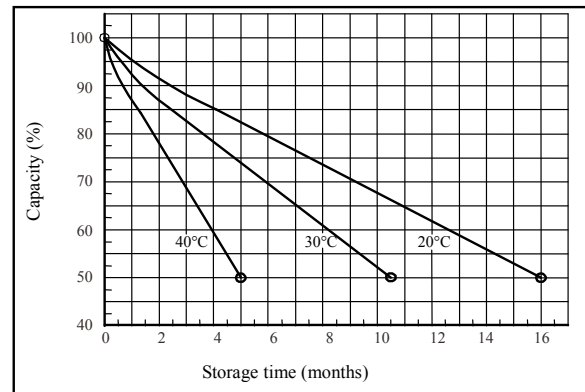
● Charging characteristics (25°C)



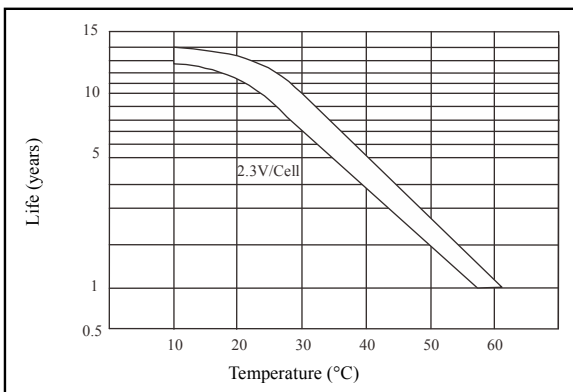
● Temperature effects on capacity



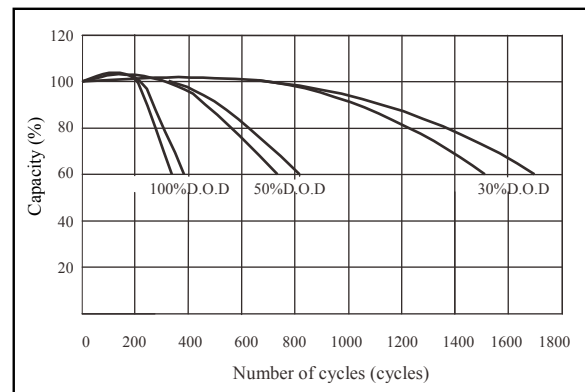
● Self-discharge characteristics



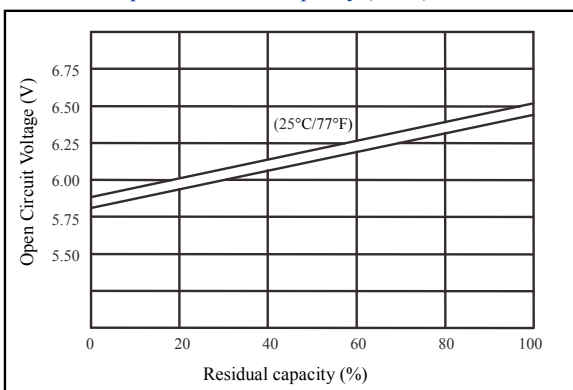
● Floating life on temperature



● Cycle life on D.O.D (25°C)



● Relationship for OCV and capacity (25°C)



● Relationship for charging voltage and temperature

