

## NP2-800Ah 2V800Ah

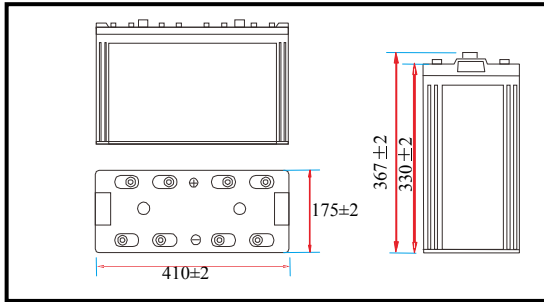
### Valve Regulated Lead Acid Battery



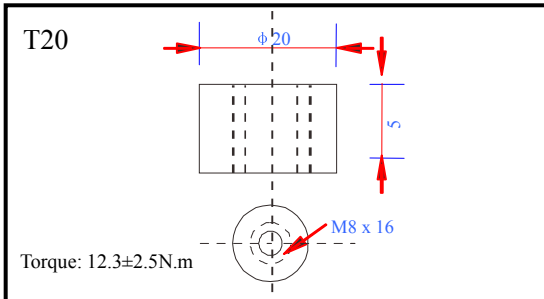
#### ● Specifications

Nominal voltage	2V (2 cells per unit)	
Rated capacity (10HR)	800Ah/10.8V	
Dimensions	Length	410±2mm (16.14inch)
	Width	175±2mm (6.89inch)
	Height	330±2mm (12.99inch)
	Total height	367±2mm (14.45inch)
Approx. weight	50.50kg (111.30lbs)±3%	

#### ● Outer dimensions (mm)



#### ● Terminal type (mm)



#### ● Characteristics

Capacity (25°C)	10HR (1.80V)	800Ah
	3HR (1.80V)	600Ah
	1HR (1.75V)	440Ah
Terminal type		T20
Internal resistance (Fully charged, 25°C)		Approx. 0.35mΩ
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)		2.25 to 2.30V Temperature compensation: -3mV/°C/Block
Cyclic charging voltage (25°C)		2.40 to 2.50V Temperature compensation: -5mV/°C/Block
Maximum charging current		160A
Maximum discharge current		4400A (5 sec.)
Design life	15 years for floating (25°C)	
	Eurobat (20°C) >12 years, very long life.	

#### ● 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)

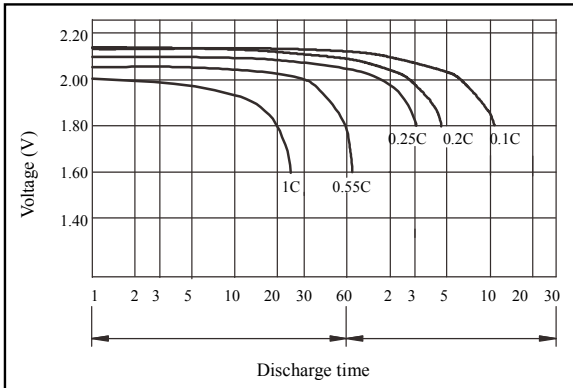
F.V/Time	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	1112	728	504	295	212	170	146	126	99.1	81.8	43.2
1.65V/cell	1085	713	489	293	211	169	145	125	98.6	81.7	43.1
1.70V/cell	1045	692	474	290	209	168	144	124	97.9	81.4	43.0
1.75V/cell	1010	675	459	286	208	166	143	123	97.2	81.0	42.7
1.80V/cell	956	650	444	279	202	161	139	120	94.3	80.4	42.4

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

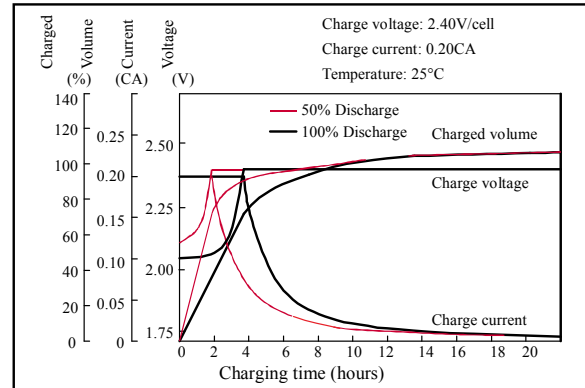
F.V/Time	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	2035	1361	958	569	416	333	288	248	197	163	86.3
1.65V/cell	1986	1334	929	566	413	331	286	246	196	163	86.2
1.70V/cell	1913	1293	900	560	411	328	284	244	195	162	85.9
1.75V/cell	1848	1262	871	552	408	326	282	243	193	161	85.4
1.80V/cell	1750	1216	843	538	395	316	274	235	188	160	84.8

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

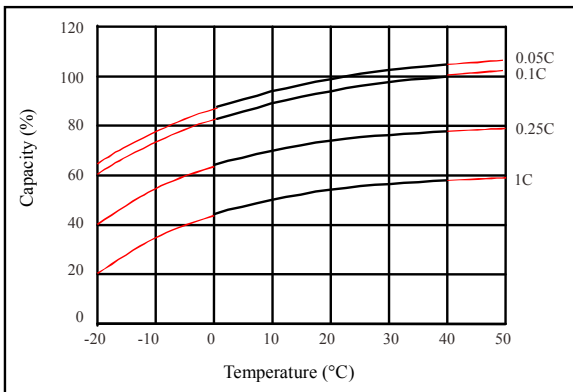
### ● Discharge characteristics (25°C)



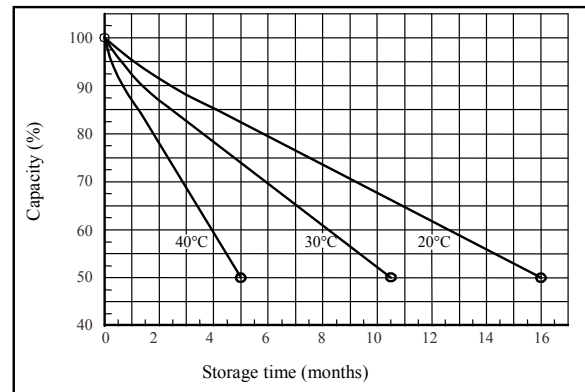
### ● Charging characteristics (25°C)



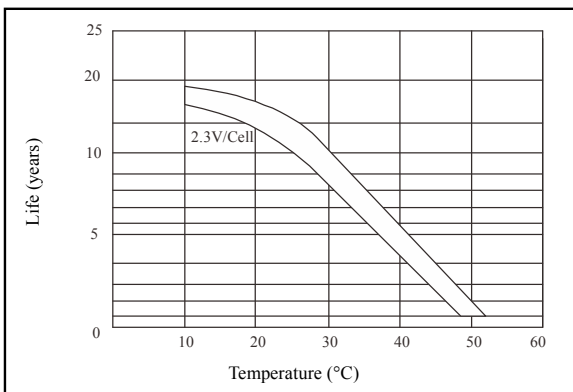
### ● Temperature effects on capacity



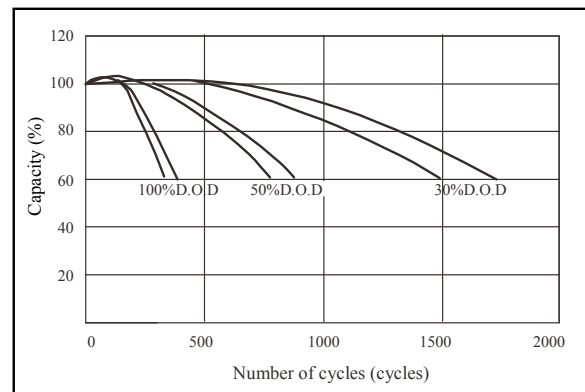
### ● Self-discharge characteristics



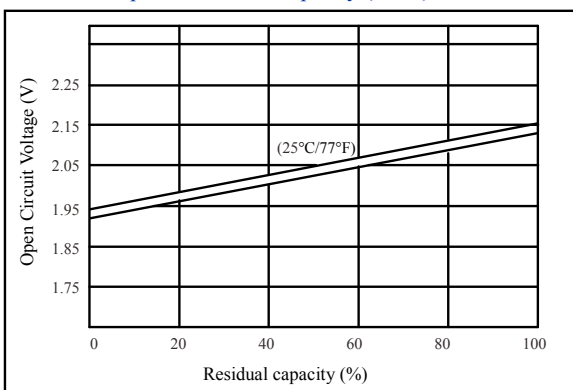
### ● Floating life on temperature



### ● Cycle life on D.O.D (25°C)



### ● Relationship for OCV and capacity (25°C)



### ● Relationship for charging voltage and temperature

