

NP2-1000Ah 2V1000Ah

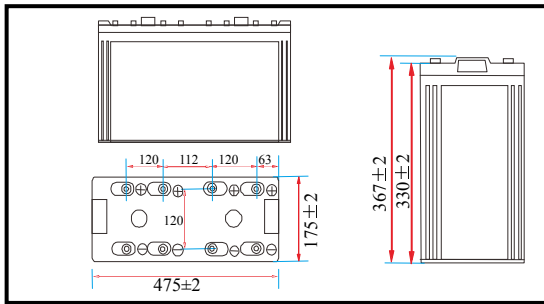
Valve Regulated Lead Acid Battery



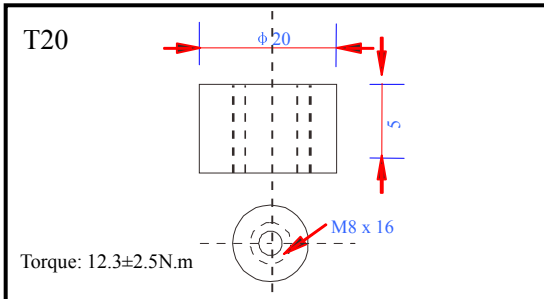
● Specifications

Nominal voltage	2V (2 cells per unit)	
Rated capacity (10HR)	1000Ah/10.8V	
Dimensions	Length	475±2mm (18.70inch)
	Width	175±2mm (6.89inch)
	Height	330±2mm (12.99inch)
	Total height	367±2mm (14.45inch)
Approx. weight	60.50kg (133.40lbs)±3%	

● Outer dimensions (mm)



● Terminal type (mm)



● Characteristics

Capacity (25°C)	10HR (1.80V)	1000Ah
	3HR (1.80V)	750Ah
	1HR (1.75V)	550Ah
Terminal type		T20
Internal resistance (Fully charged, 25°C)		Approx. 0.27mΩ
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		200A
Maximum discharge current		5500A (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)

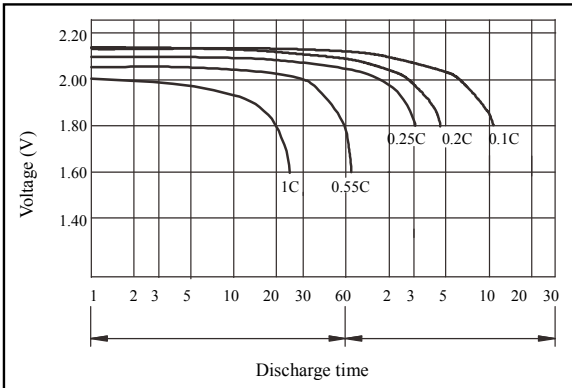
F.V/Time	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	1390	910	630	368	265	212	183	157	124	102	54.0
1.65V/cell	1357	892	611	366	264	211	182	156	123	102	53.8
1.70V/cell	1307	865	592	363	262	209	180	155	122	102	53.7
1.75V/cell	1262	844	573	358	260	208	179	154	122	101	53.4
1.80V/cell	1195	813	554	348	252	202	174	149	118	101	53.0

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

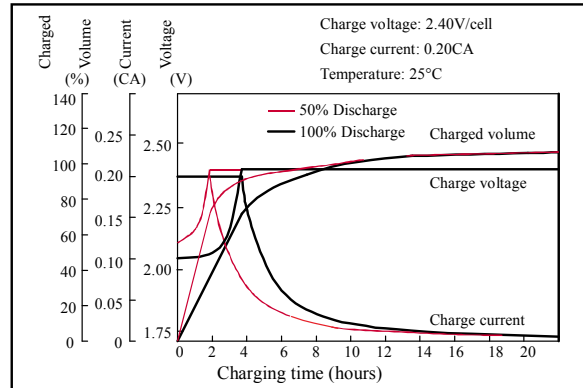
F.V/Time	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	2544	1702	1197	711	520	416	360	309	247	204	108
1.65V/cell	2483	1668	1161	707	517	413	358	308	245	203	108
1.70V/cell	2391	1617	1125	701	513	411	355	306	243	203	107
1.75V/cell	2310	1577	1089	690	510	408	353	303	242	201	107
1.80V/cell	2188	1520	1053	673	494	395	342	294	235	200	106

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

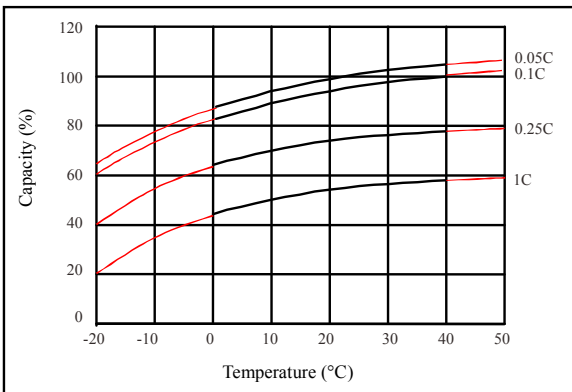
● Discharge characteristics (25°C)



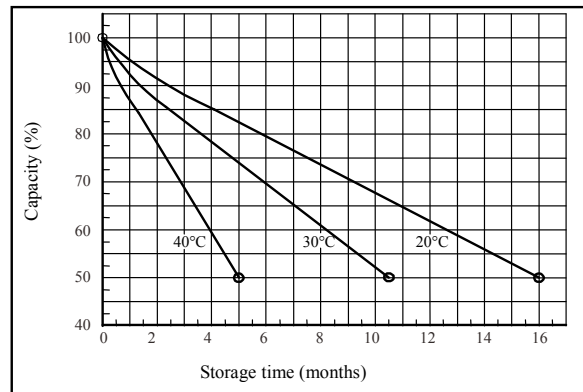
● Charging characteristics (25°C)



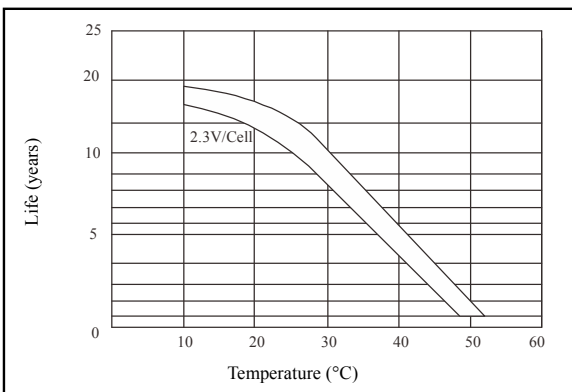
● Temperature effects on capacity



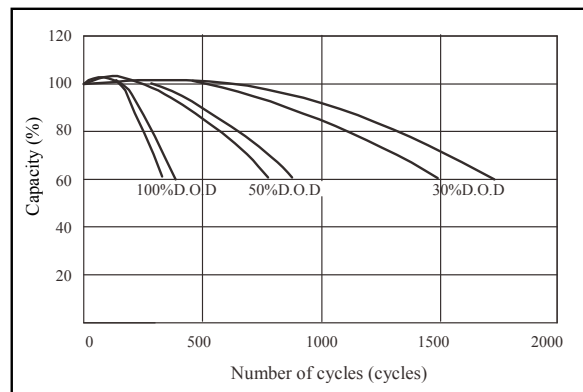
● Self-discharge characteristics



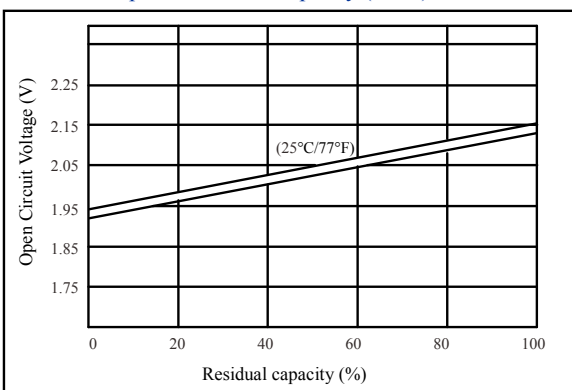
● Floating life on temperature



● Cycle life on D.O.D (25°C)



● Relationship for OCV and capacity (25°C)



● Relationship for charging voltage and temperature

