

NPG2-800Ah 2V800Ah

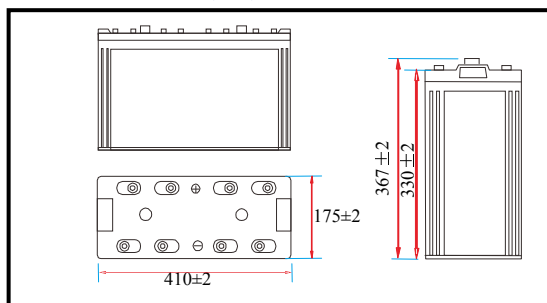
Valve Regulated Lead Acid Battery



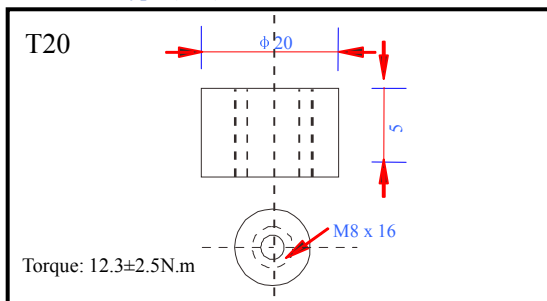
● Specifications

Nominal voltage	2V (2 cells per unit)	
Rated capacity (10HR)	800Ah/1.8V	
Dimensions	Length	410±2mm (16.14inch)
	Width	175±2mm (6.89inch)
	Height	330±2mm (12.99inch)
	Total height	367±2mm (14.45inch)
Approx. weight	53.00kg (116.80 lbs)±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. 0.4mΩ
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 2.45V Temperature compensation: -5mV/°C/Block
Maximum charging current		160A
Maximum discharge current		4400A (5 sec.)
Design life	18 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	Gel	Rubber	Copper

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

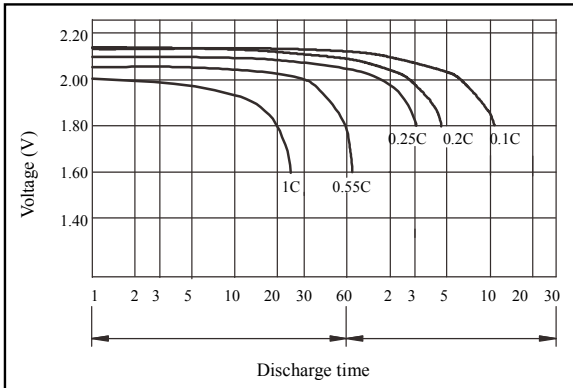
F.V/Time	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	1000	696	480	288	209	165	137	121	96.3	81.4	42.8
1.65V/cell	976	682	470	287	208	164	136	120	95.7	81.3	42.7
1.70V/cell	940	661	456	284	206	163	135	119	95.1	81.0	42.5
1.75V/cell	908	645	446	280	205	162	134	118	94.4	80.6	42.3
1.80V/cell	860	622	432	273	201	157	130	115	91.6	80.0	42.0

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

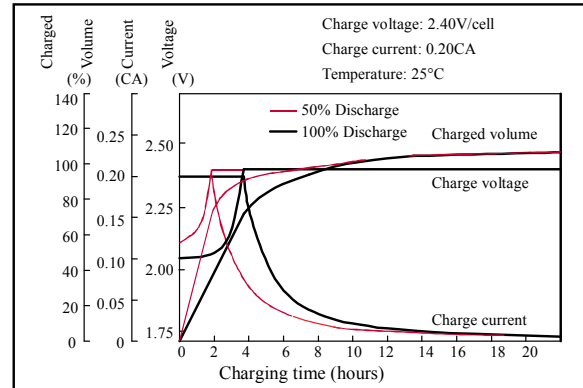
F.V/Time	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	1830	1302	912	556	409	323	270	238	192	162	85.5
1.65V/cell	1786	1275	894	553	407	321	268	237	190	162	85.3
1.70V/cell	1720	1236	866	548	404	319	267	235	189	161	85.1
1.75V/cell	1662	1207	848	540	401	317	265	233	188	160	84.6
1.80V/cell	1574	1162	821	526	393	307	257	226	182	159	84.0

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

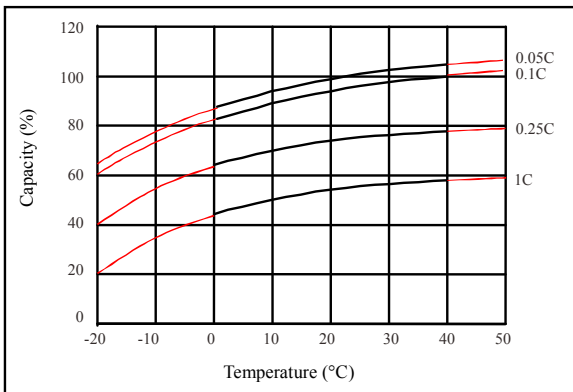
● Discharge characteristics (25°C)



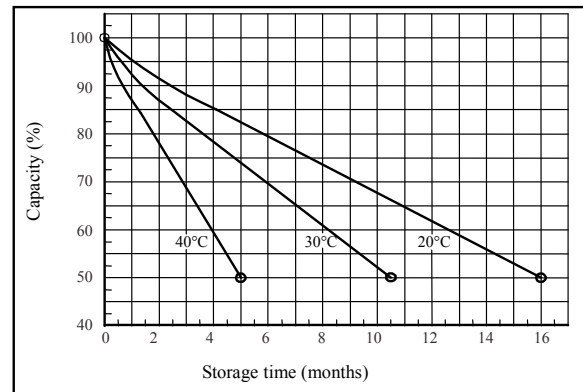
● Charging characteristics (25°C)



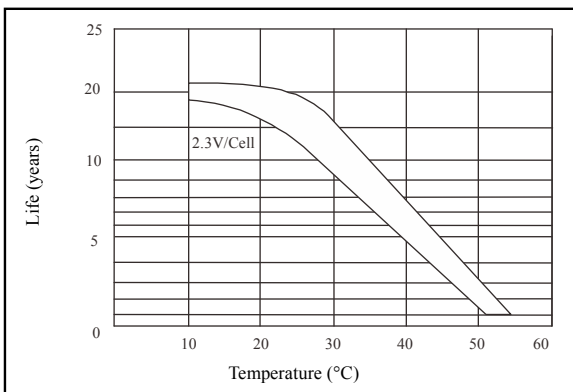
● Temperature effects on capacity



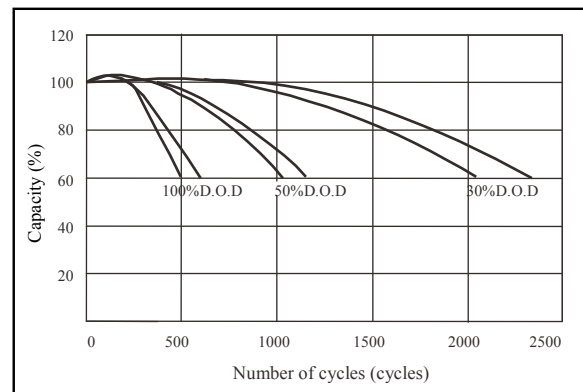
● Self-discharge characteristics



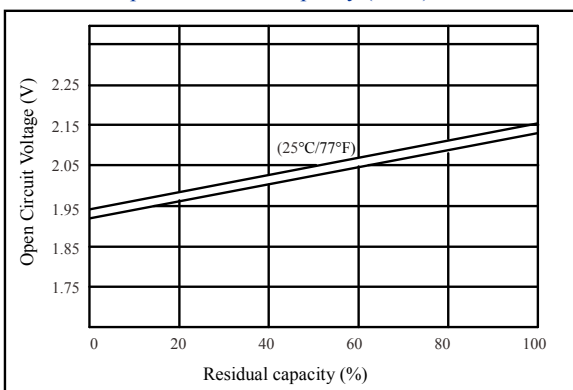
● Floating life on temperature



● Cycle life on D.O.D (25°C)



● Relationship for OCV and capacity (25°C)



● Relationship for charging voltage and temperature

