

## NPG2-2000Ah 2V2000Ah

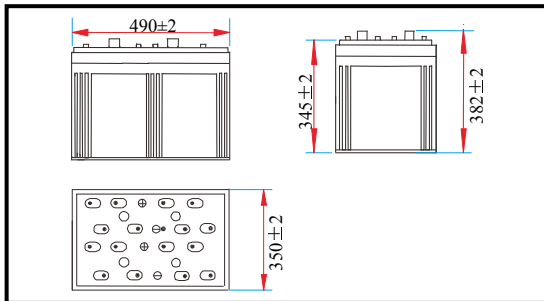
### Valve Regulated Lead Acid Battery



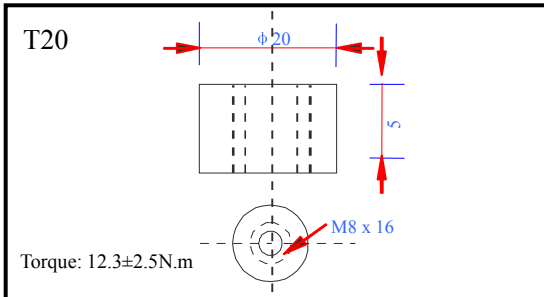
#### Specifications

Nominal voltage	2V (2 cells per unit)	
Rated capacity (10HR)	2000Ah/1.8V	
Dimensions	Length	490±2mm (19.29inch)
	Width	350±2mm (13.78inch)
	Height	345±2mm (13.58inch)
	Total height	382±2mm (15.04inch)
Approx. weight	131.00kg (288.80 lbs)±3%	

#### Outer dimensions (mm)



#### Terminal type (mm)



#### Characteristics

Capacity (25°C)	10HR (1.80V)	2000Ah
	3HR (1.80V)	1500Ah
	1HR (1.75V)	1160Ah
Terminal type		T20
Internal resistance (Fully charged, 25°C)		Approx. 0.2mΩ
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		400A
Maximum discharge current		10000A (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)

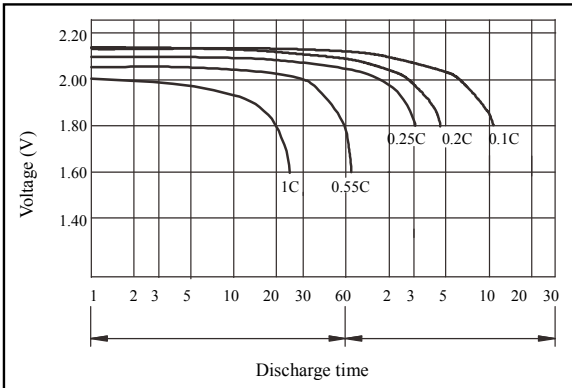
F.V/Time	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h
1.60V/cell	1740	1200	721	522	412	343	302	241	204	107	91.8
1.65V/cell	1705	1176	716	519	410	341	300	239	203	107	91.6
1.70V/cell	1653	1140	710	516	407	338	298	238	203	106	91.4
1.75V/cell	1613	1116	699	512	404	336	296	236	201	106	90.8
1.80V/cell	1554	1080	682	502	392	326	287	229	200	105	90.2

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

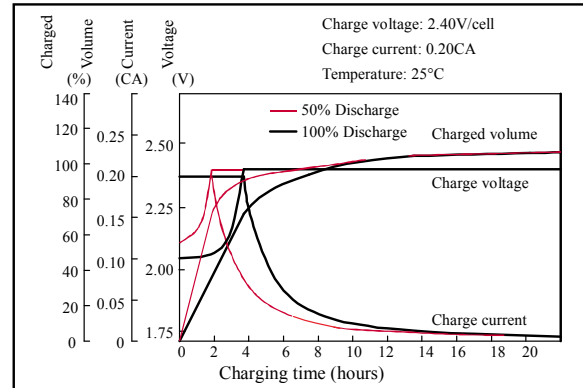
F.V/Time	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h
1.60V/cell	3254	2280	1391	1024	808	675	595	479	405	214	185
1.65V/cell	3189	2234	1383	1018	803	671	591	476	404	213	184
1.70V/cell	3091	2166	1370	1011	797	667	587	473	403	213	184
1.75V/cell	3016	2120	1350	1004	792	662	583	470	401	211	183
1.80V/cell	2906	2052	1315	983	768	642	566	456	398	210	181

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

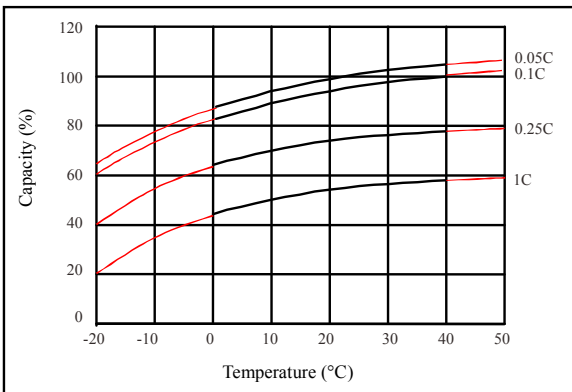
### ● Discharge characteristics (25°C)



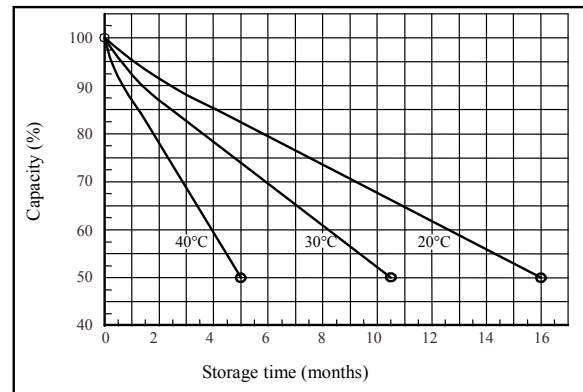
### ● Charging characteristics (25°C)



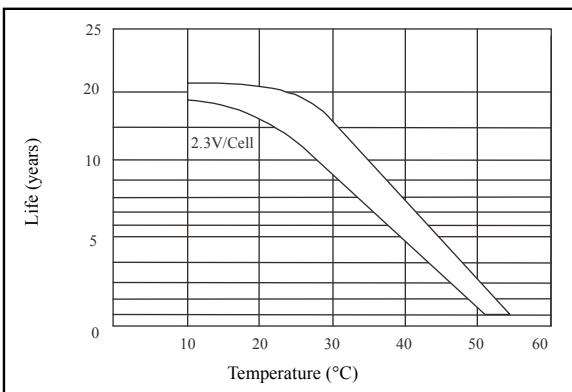
### ● Temperature effects on capacity



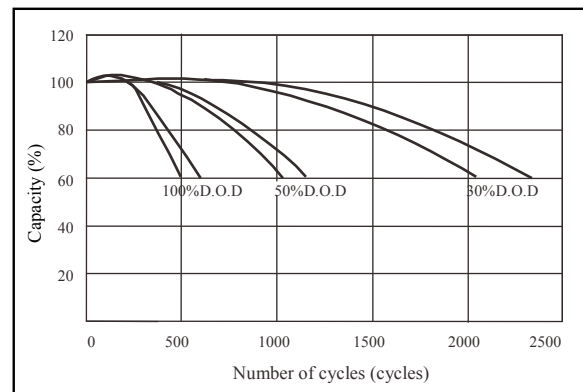
### ● Self-discharge characteristics



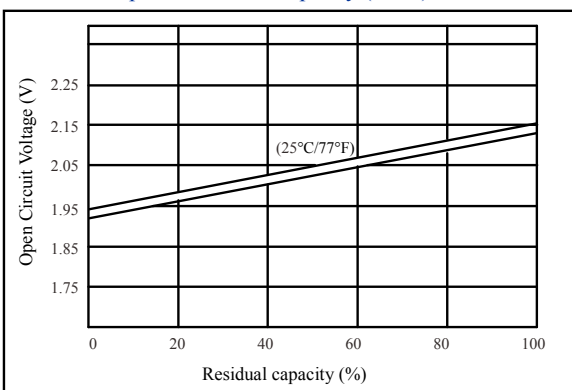
### ● Floating life on temperature



### ● Cycle life on D.O.D (25°C)



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



### ● Relationship for charging voltage and temperature

