

## NPG2-200Ah 2V200Ah

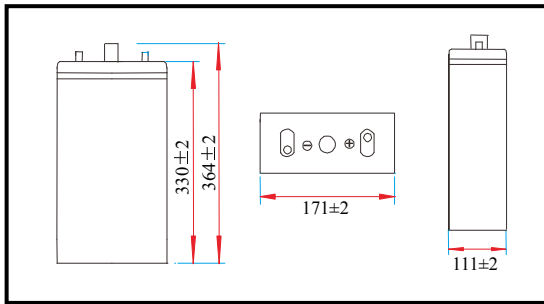
### Valve Regulated Lead Acid Battery



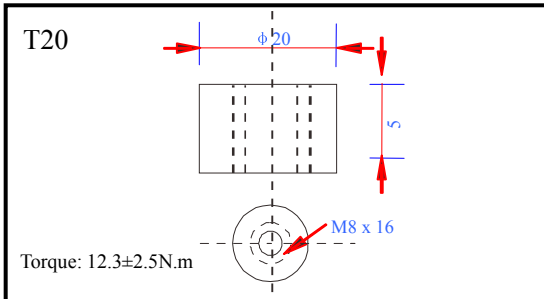
#### Specifications

Nominal voltage	2V (1 cell per unit)	
Rated capacity (10HR)	200Ah/1.8V	
Dimensions	Length	171±2mm (6.73inch)
	Width	111±2mm (4.37inch)
	Height	330±2mm (12.99inch)
	Total height	364±2mm (14.33inch)
Approx. weight	14.00kg (30.90 lbs)±3%	

#### Outer dimensions (mm)



#### Terminal type (mm)



#### Characteristics

Capacity (25°C)	10HR (1.80V)	200Ah
	3HR (1.80V)	150Ah
	1HR (1.75V)	110Ah
Terminal type		T20
Internal resistance (Fully charged, 25°C)		Approx. 0.95mΩ
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		40A
Maximum discharge current		1500A (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)

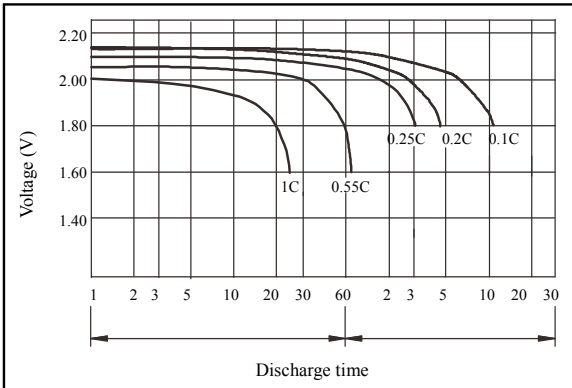
F.V/Time	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	250	174	120	72.1	52.2	41.2	34.3	30.2	24.1	20.4	10.7
1.65V/cell	244	171	118	71.6	51.9	41.0	34.1	30.0	23.9	20.3	10.7
1.70V/cell	235	165	114	71.0	51.6	40.7	33.8	29.8	23.8	20.3	10.6
1.75V/cell	227	161	112	69.9	51.2	40.4	33.6	29.6	23.6	20.1	10.6
1.80V/cell	215	155	108	68.2	50.2	39.2	32.6	28.7	22.9	20.0	10.5

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

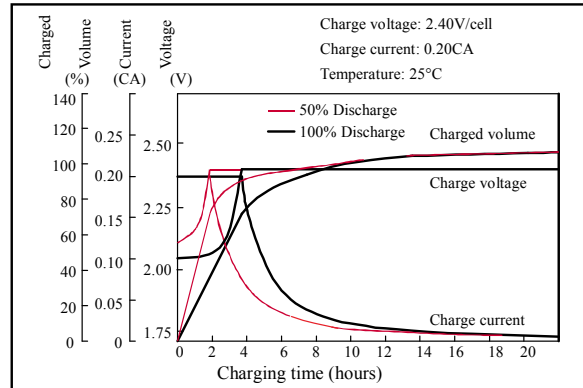
F.V/Time	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	458	325	228	139	102	80.8	67.5	59.5	47.9	40.5	21.4
1.65V/cell	447	319	223	138	102	80.3	67.1	59.1	47.6	40.4	21.3
1.70V/cell	430	309	217	137	101	79.7	66.7	58.7	47.3	40.3	21.3
1.75V/cell	415	302	212	135	100	79.2	66.2	58.3	47.0	40.1	21.1
1.80V/cell	393	291	205	132	98.3	76.8	64.2	56.6	45.6	39.8	21.0

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

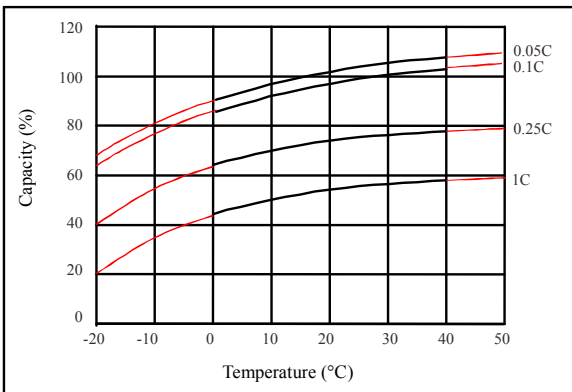
### ● Discharge characteristics (25°C)



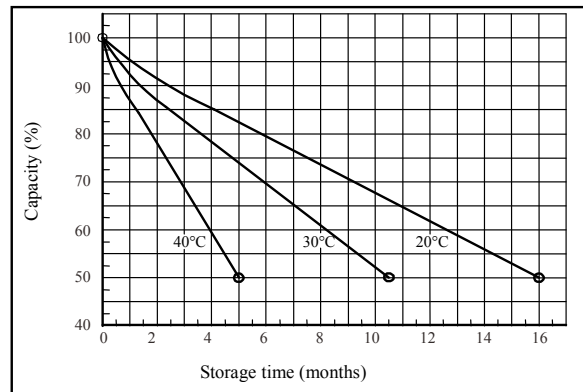
### ● Charging characteristics (25°C)



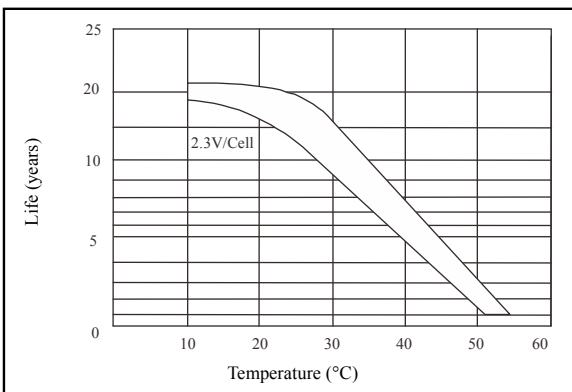
### ● Temperature effects on capacity



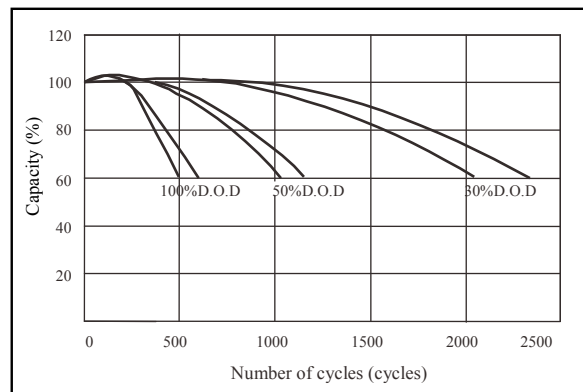
### ● Self-discharge characteristics



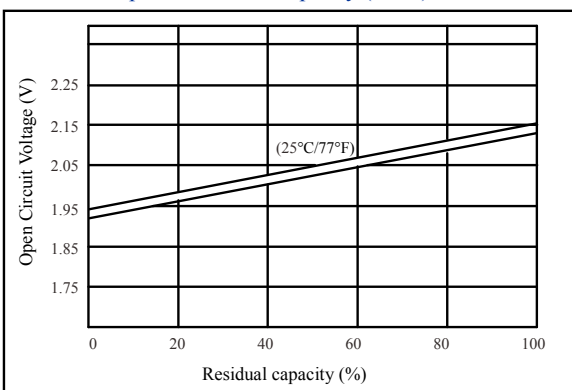
### ● Floating life on temperature



### ● Cycle life on D.O.D (25°C)



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



### ● Relationship for charging voltage and temperature

