

## NPG2-3000Ah 2V3000Ah

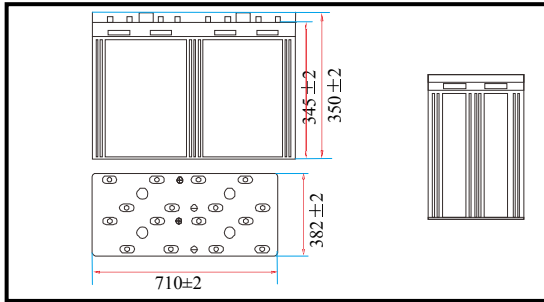
### Valve Regulated Lead Acid Battery



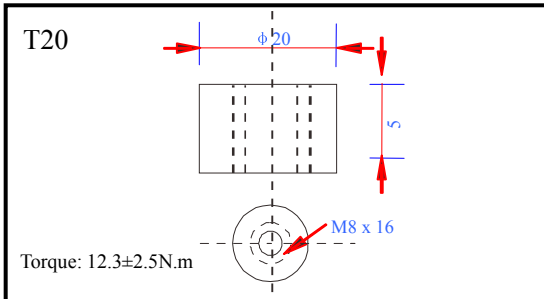
#### ● Specifications

Nominal voltage	2V (2 cells per unit)	
Rated capacity (10HR)	3000Ah/1.8V	
Dimensions	Length	710±2mm (27.95inch)
	Width	350±2mm (13.78inch)
	Height	345±2mm (13.58inch)
	Total height	382±2mm (15.04inch)
Approx. weight	188.00kg (414.46lbs)±3%	

#### ● Outer dimensions (mm)



#### ● Terminal type (mm)



#### ● Characteristics

Capacity (25°C)	10HR (1.80V)	3000Ah
	3HR (1.80V)	2250Ah
	1HR (1.75V)	1650Ah
Terminal type		T20
Internal resistance (Fully charged, 25°C)		Approx. 0.13mΩ
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		600A
Maximum discharge current		15000A (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)

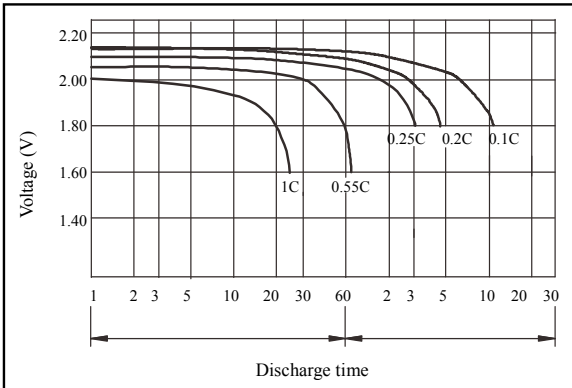
F.V/Time	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h
1.60V/cell	2610	1800	1081	783	618	514	453	361	305	160	138
1.65V/cell	2558	1764	1075	779	614	511	453	359	305	160	137
1.70V/cell	2480	1710	1065	773	610	508	447	356	304	160	137
1.75V/cell	2419	1674	1049	768	606	504	444	354	302	159	136
1.80V/cell	2331	1620	1022	753	588	489	431	343	300	158	135

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

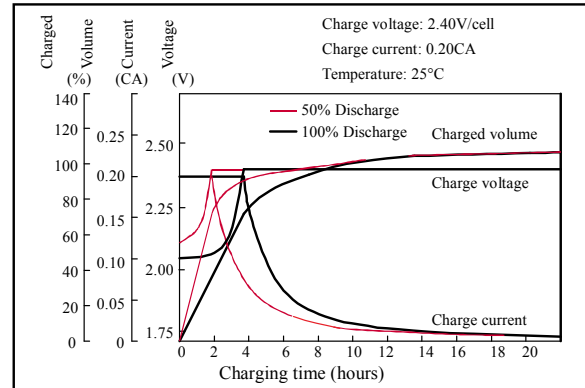
F.V/Time	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h
1.60V/cell	4881	3420	2086	1535	1212	1013	892	719	608	321	277
1.65V/cell	4783	3352	2074	1526	1204	1007	887	714	607	320	276
1.70V/cell	4637	3249	2055	1516	1196	1000	881	709	605	319	275
1.75V/cell	4524	3181	2025	1505	1188	993	875	704	601	317	274
1.80V/cell	4358	3078	1973	1475	1152	963	848	683	597	315	272

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

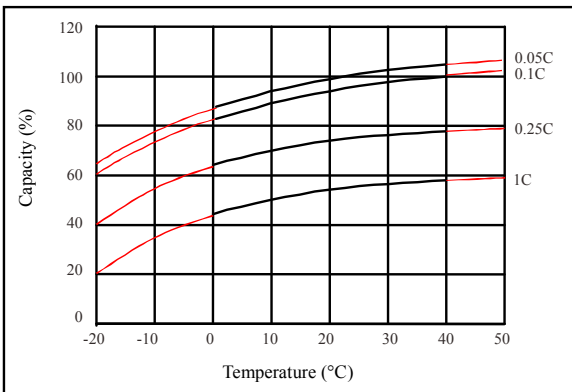
### ● Discharge characteristics (25°C)



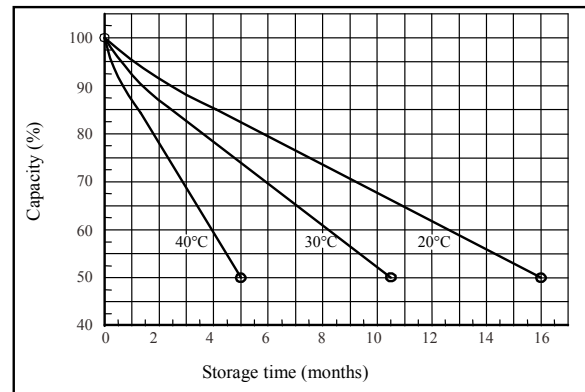
### ● Charging characteristics (25°C)



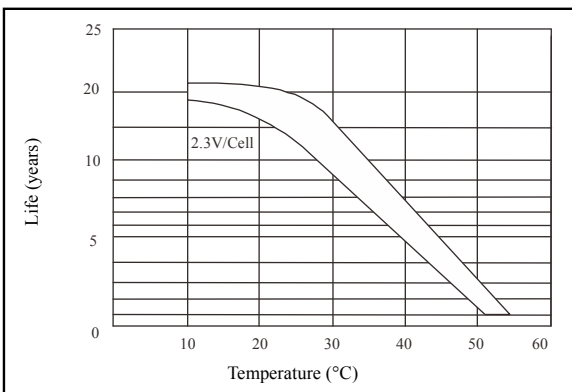
### ● Temperature effects on capacity



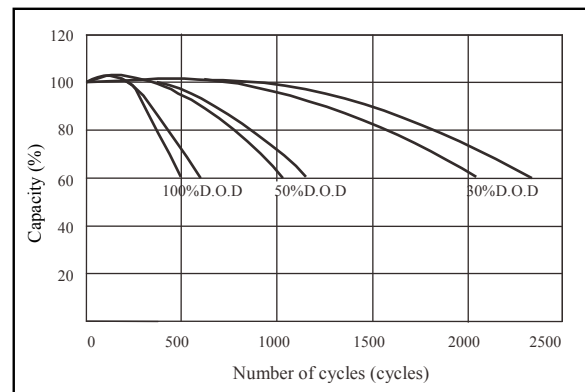
### ● Self-discharge characteristics



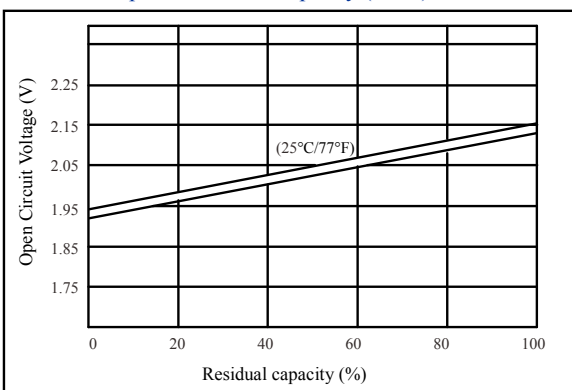
### ● Floating life on temperature



### ● Cycle life on D.O.D (25°C)



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



### ● Relationship for charging voltage and temperature

