

## NP2-3000Ah 2V3000Ah

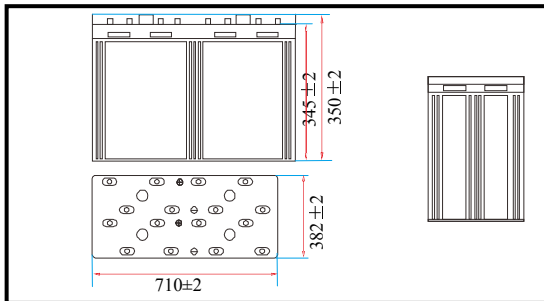
### Valve Regulated Lead Acid Battery



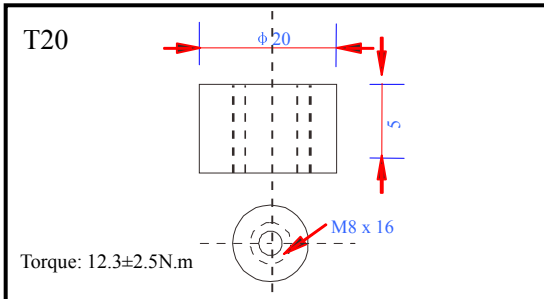
#### Specifications

Nominal voltage	2V (2 cells per unit)	
Rated capacity (10HR)	3000Ah/10.8V	
Dimensions	Length	710±2mm (27.95inch)
	Width	350±2mm (13.78inch)
	Height	345±2mm (13.58inch)
	Total height	382±2mm (15.04inch)
Approx. weight	180.00kg (396.83lbs)±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. 0.12mΩ
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		600A
Maximum discharge current		15000A (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)

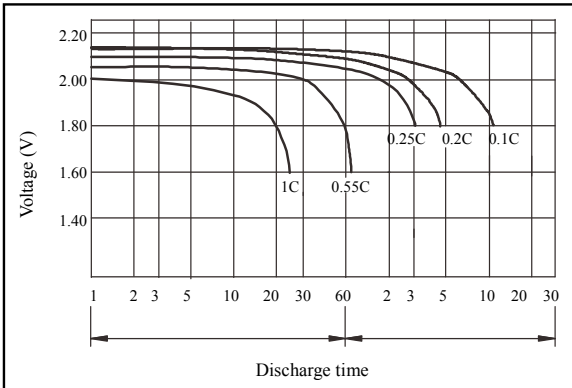
F.V/Time	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h
1.60V/cell	2730	1890	1105	796	636	548	471	372	307	162	139
1.65V/cell	2675	1833	1099	791	633	545	468	370	306	162	138
1.70V/cell	2594	1777	1089	785	628	541	465	367	305	161	138
1.75V/cell	2531	1720	1073	780	624	537	462	365	304	160	137
1.80V/cell	2438	1663	1045	757	605	521	448	354	302	159	136

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

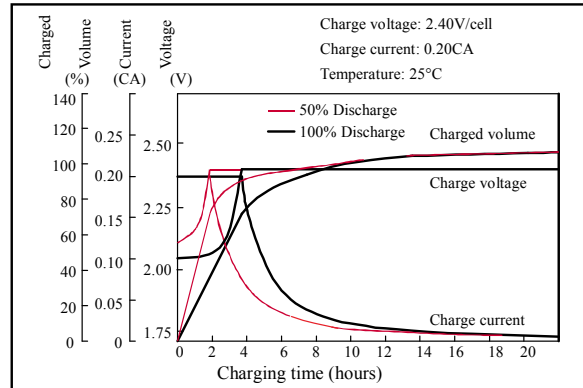
F.V/Time	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h
1.60V/cell	5105	3591	2133	1559	1248	1079	928	740	611	324	279
1.65V/cell	5003	3483	2121	1550	1240	1073	923	736	610	323	278
1.70V/cell	4850	3376	2102	1540	1232	1065	917	730	608	322	277
1.75V/cell	4732	3268	2070	1529	1223	1058	910	725	604	320	276
1.80V/cell	4559	3160	2018	1483	1186	1026	883	704	600	318	274

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

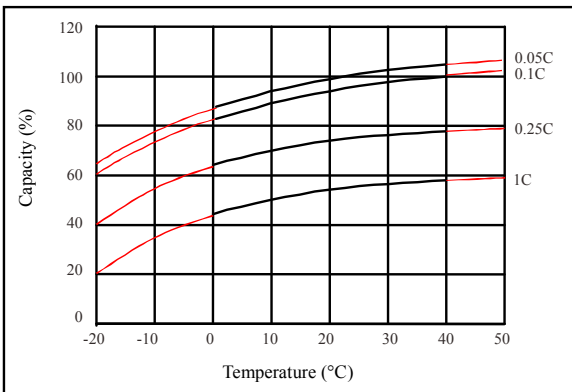
### ● Discharge characteristics (25°C)



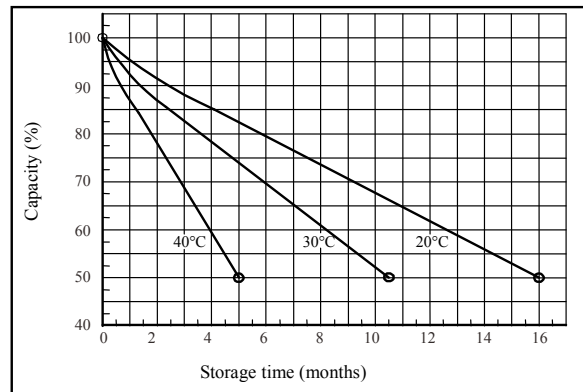
### ● Charging characteristics (25°C)



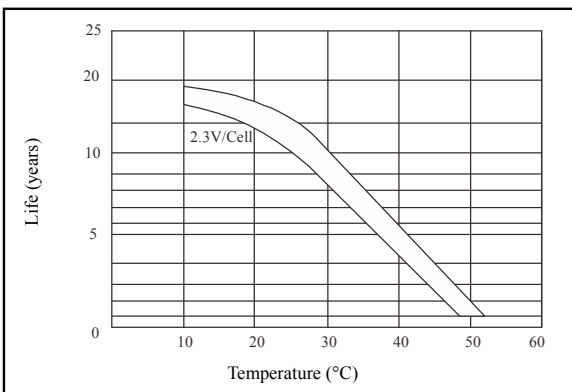
### ● Temperature effects on capacity



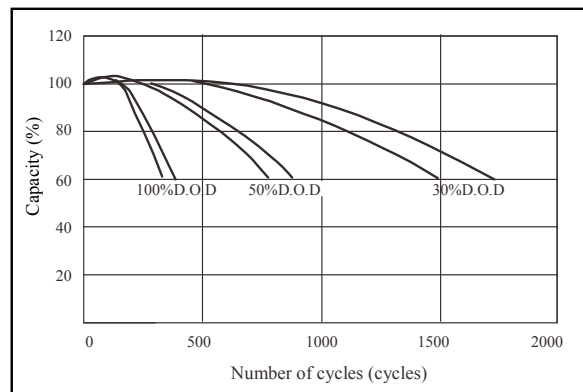
### ● Self-discharge characteristics



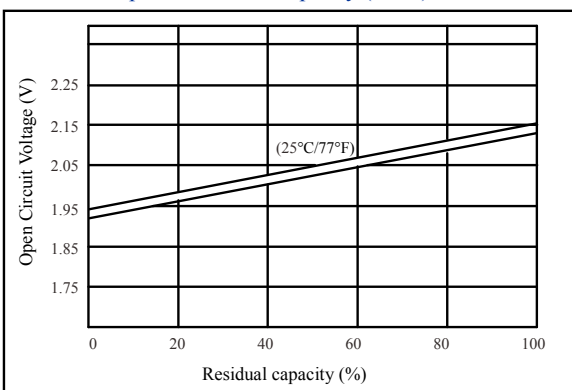
### ● Floating life on temperature



### ● Cycle life on D.O.D (25°C)



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



### ● Relationship for charging voltage and temperature

