

NPD2-2000Ah 2V2000Ah

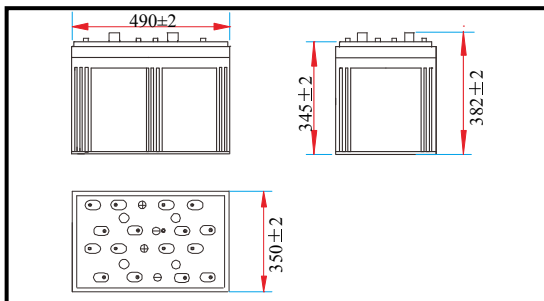
Valve Regulated Lead Acid Battery



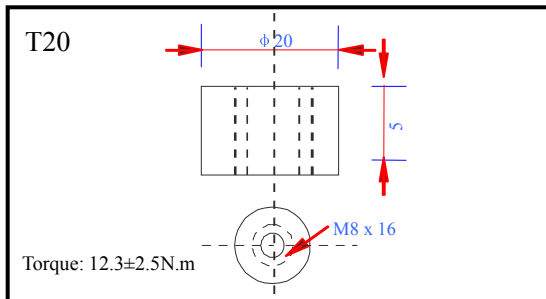
● Specifications

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 (288.80lbs)±3%	

● Outer dimensions (mm)



● Terminal type (mm)



● Characteristics

Capacity (25°C)	10HR (1.80V)	2000Ah
	3HR (1.80V)	1590Ah
	1HR (1.75V)	1160Ah
Terminal type		T20
Internal resistance (Fully charged, 25°C)		Approx. 0.17mΩ
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		400A
Maximum discharge current		10000A (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)

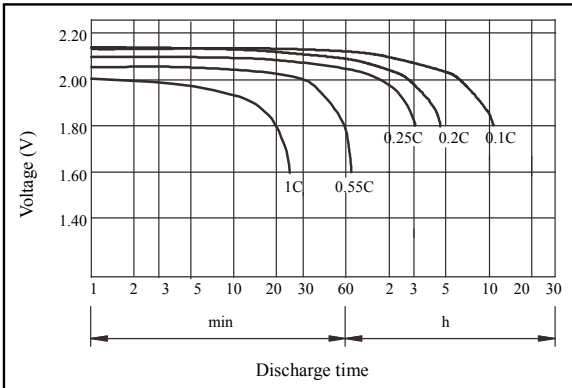
F.V/Time	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h
1.60V/cell	1911	1323	774	557	446	383	330	260	215	113	97.1
1.65V/cell	1873	1283	769	554	443	381	328	259	214	113	96.9
1.70V/cell	1815	1244	762	550	440	379	326	257	214	113	96.6
1.75V/cell	1771	1204	751	546	437	376	323	255	213	112	96.0
1.80V/cell	1707	1164	732	530	424	365	314	247	211	111	95.3

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

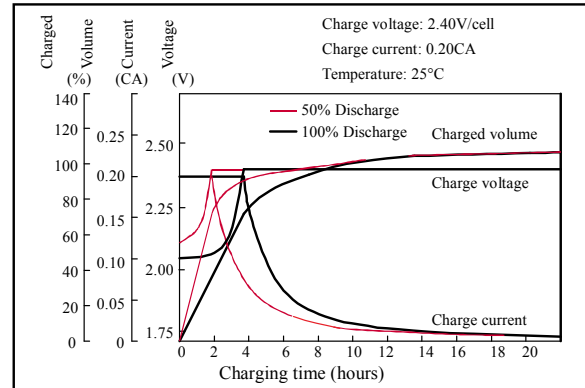
F.V/Time	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h
1.60V/cell	3574	2514	1493	1092	873	755	650	518	428	227	195
1.65V/cell	3502	2438	1484	1085	868	751	646	515	427	226	195
1.70V/cell	3395	2363	1471	1078	862	746	642	511	425	225	194
1.75V/cell	3313	2287	1449	1070	856	741	637	508	423	224	193
1.80V/cell	3191	2212	1412	1038	830	718	618	493	420	223	192

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

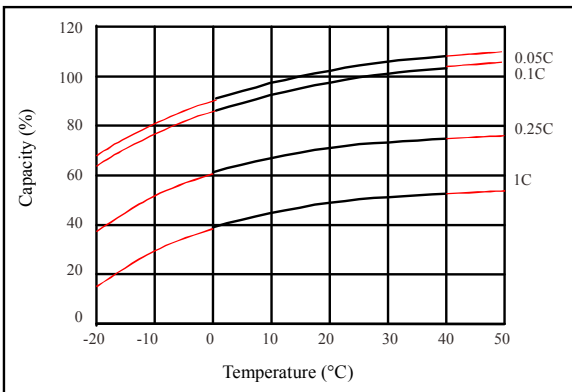
● Discharge characteristics (25°C)



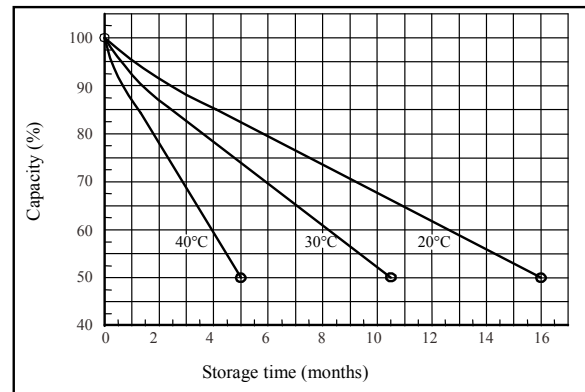
● Charging characteristics (25°C)



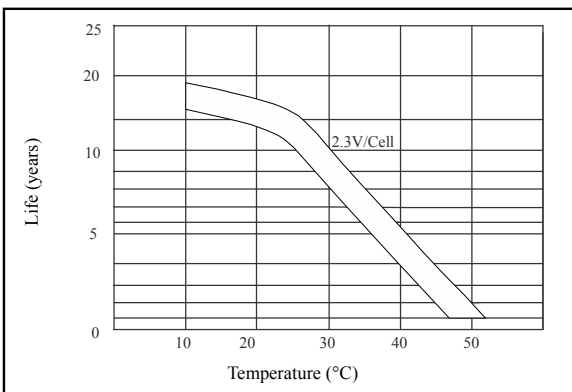
● Temperature effects on capacity



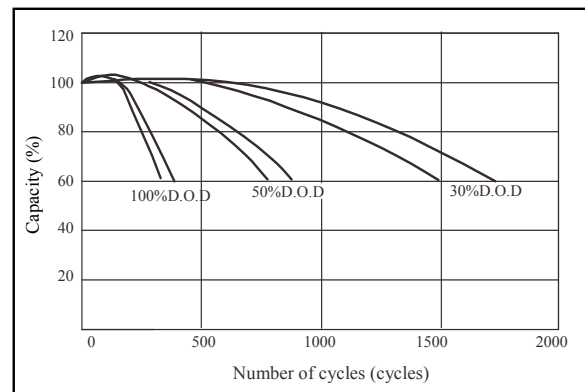
● Self-discharge characteristics



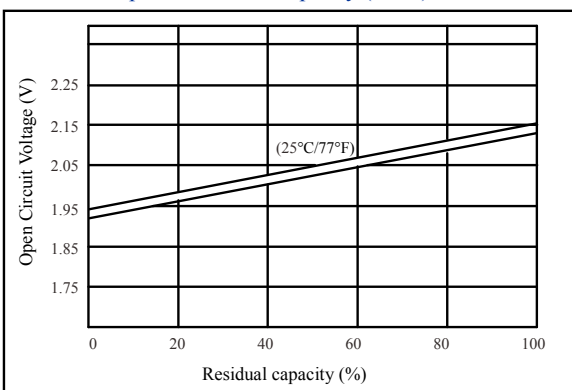
● Floating life on temperature



● Cycle life on D.O.D (25°C)



● Relationship for OCV and capacity (25°C)



● Relationship for charging voltage and temperature

