

NPD2-3000Ah 2V3000Ah

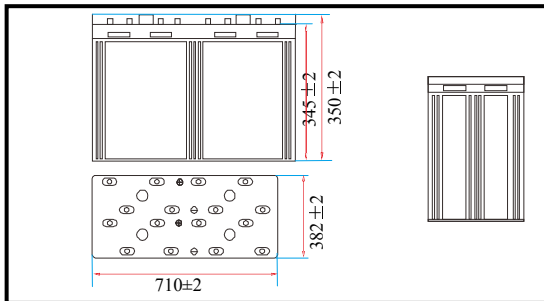
Valve Regulated Lead Acid Battery



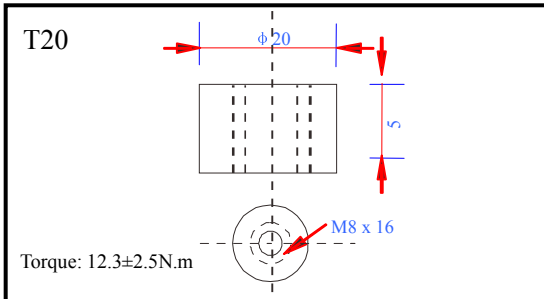
● Specifications

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	191.00kg (421.00lbs)±3%	

● Outer dimensions (mm)



● Terminal type (mm)



● Characteristics

Capacity (25°C)	10HR (1.80V)	3000Ah
	3HR (1.80V)	2340Ah
	1HR (1.75V)	1740Ah
Terminal type		T20
Internal resistance (Fully charged, 25°C)		Approx. 0.11mΩ
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)

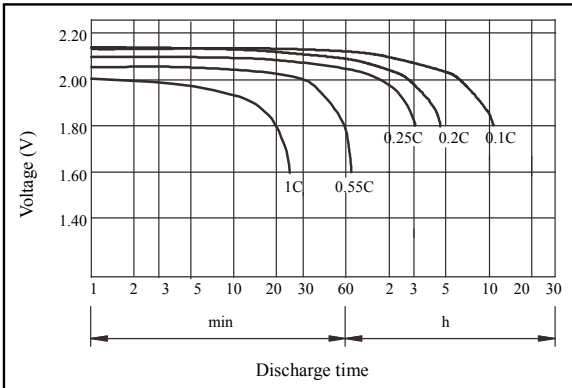
F.V/Time	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h
1.60V/cell	2839	1966	1150	827	662	570	490	387	319	168	144
1.65V/cell	2782	1907	1143	823	658	566	487	384	319	168	144
1.70V/cell	2697	1848	1133	817	654	562	484	382	318	168	143
1.75V/cell	2632	1789	1116	811	649	558	480	379	316	167	143
1.80V/cell	2535	1730	1087	787	629	542	466	368	314	165	142

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

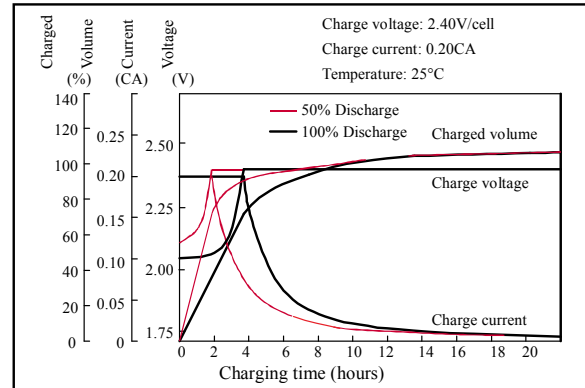
F.V/Time	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h
1.60V/cell	5309	3735	2219	1622	1297	1122	965	769	635	337	290
1.65V/cell	5203	3623	2206	1612	1290	1116	960	765	634	336	289
1.70V/cell	5044	3511	2186	1601	1281	1108	953	760	632	335	288
1.75V/cell	4922	3399	2153	1590	1272	1100	947	754	628	333	287
1.80V/cell	4741	3286	2098	1542	1234	1067	918	732	624	331	285

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

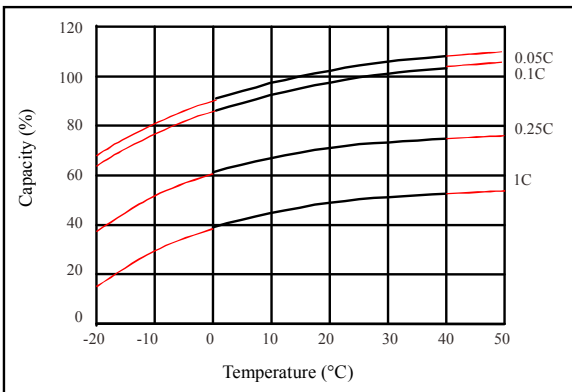
● Discharge characteristics (25°C)



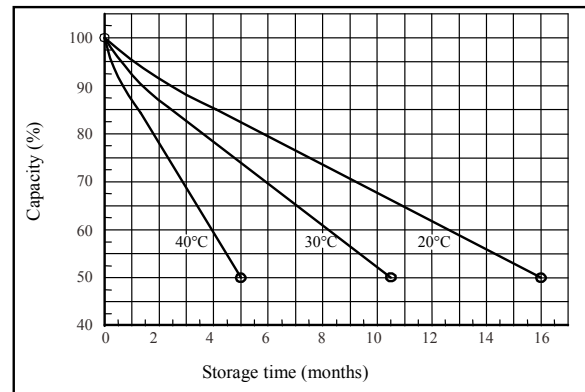
● Charging characteristics (25°C)



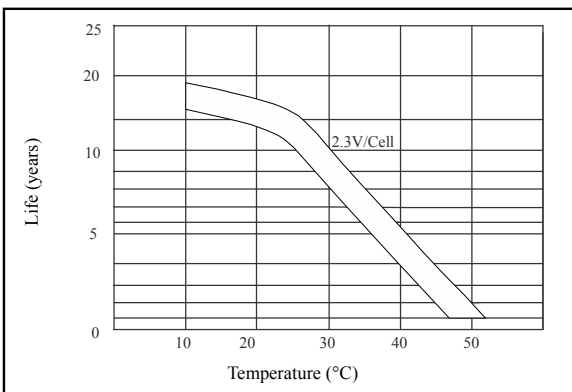
● Temperature effects on capacity



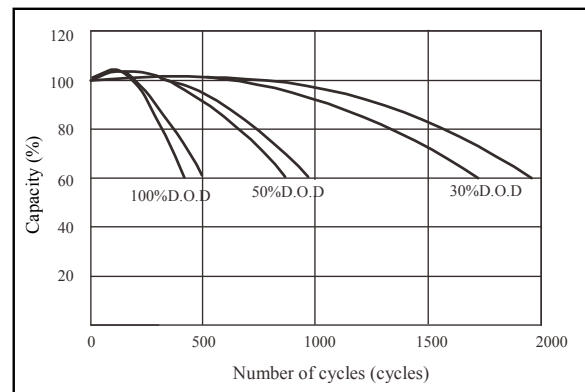
● Self-discharge characteristics



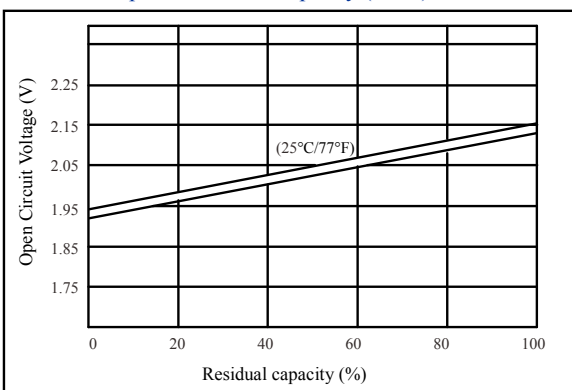
● Floating life on temperature



● Cycle life on D.O.D (25°C)



● Relationship for OCV and capacity (25°C)



● Relationship for charging voltage and temperature

