

## NPG2-600Ah 2V600Ah

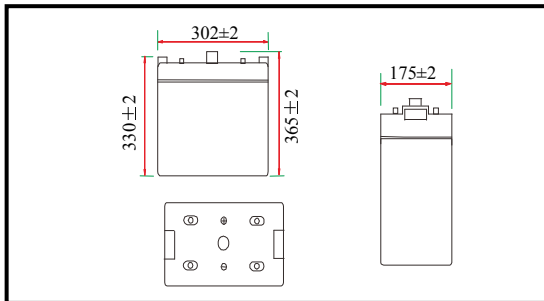
### Valve Regulated Lead Acid Battery



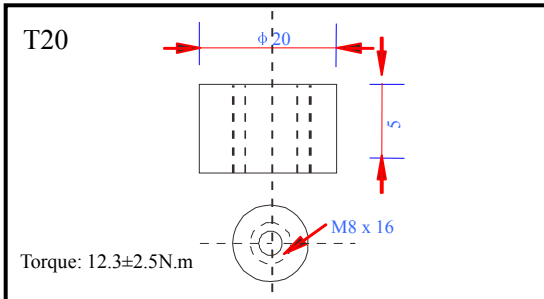
#### Specifications

Nominal voltage	2V (1 cell per unit)	
Rated capacity (10HR)	600Ah/1.8V	
Dimensions	Length	302±2mm (11.89inch)
	Width	175±2mm (6.89inch)
	Height	330±2mm (12.99inch)
	Total height	367±2mm (14.45inch)
Approx. weight	38.00kg (83.80lbs)±3%	

#### Outer dimensions (mm)



#### Terminal type (mm)



#### Characteristics

Capacity (25°C)	10HR (1.80V)	600Ah
	3HR (1.80V)	450Ah
	1HR (1.75V)	330Ah
Terminal type		T20
Internal resistance (Fully charged, 25°C)		Approx. 0.5mΩ
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		120A
Maximum discharge current		3600A (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)

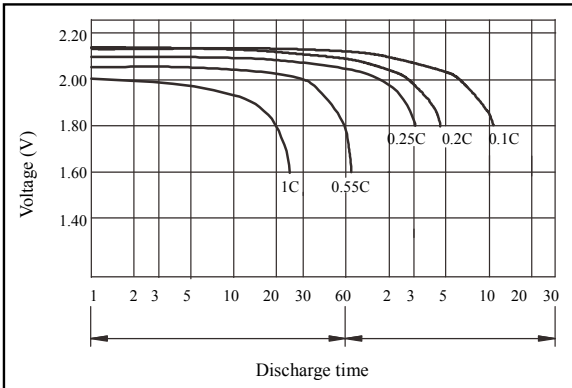
F.V/Time	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	750	522	360	216	157	124	103	90.6	72.2	61.1	32.1
1.65V/cell	732	512	353	215	156	123	102	90.0	71.8	61.0	32.0
1.70V/cell	705	496	342	213	155	122	102	89.4	71.3	60.8	31.9
1.75V/cell	681	484	335	210	154	121	101	88.8	70.8	60.4	31.7
1.80V/cell	645	466	324	204	151	118	97.8	86.1	68.7	60.0	31.5

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

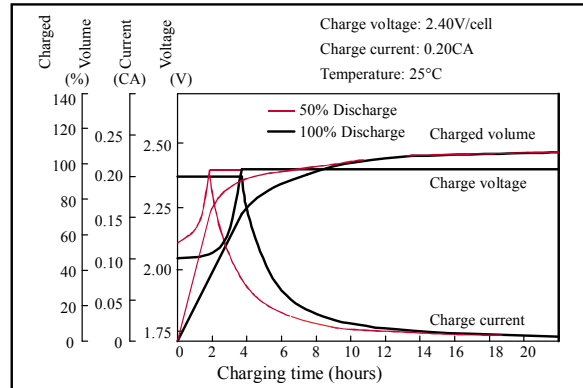
F.V/Time	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	1373	976	684	417	307	242	203	178	144	122	64.1
1.65V/cell	1340	957	670	415	305	241	201	177	143	121	64.0
1.70V/cell	1290	927	650	411	303	239	200	176	142	121	63.8
1.75V/cell	1246	905	636	405	301	238	199	175	141	120	63.4
1.80V/cell	1180	872	616	395	295	230	193	170	137	119	63.0

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

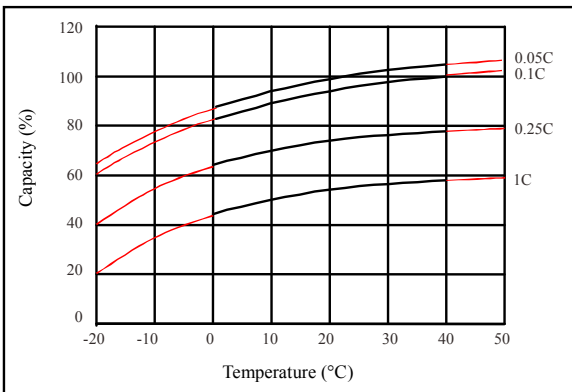
### ● Discharge characteristics (25°C)



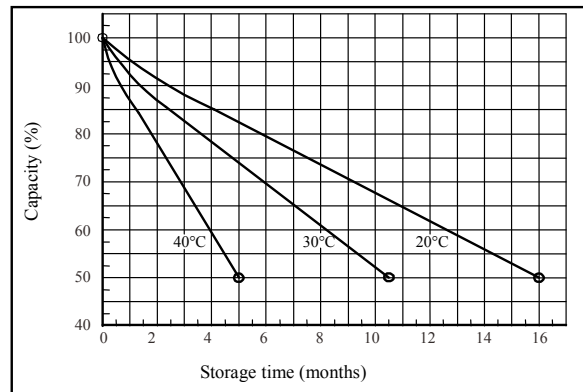
### ● Charging characteristics (25°C)



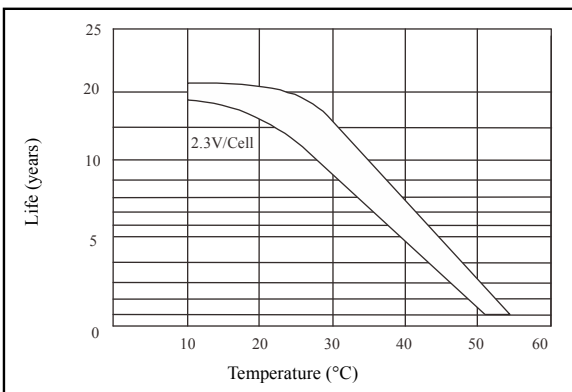
### ● Temperature effects on capacity



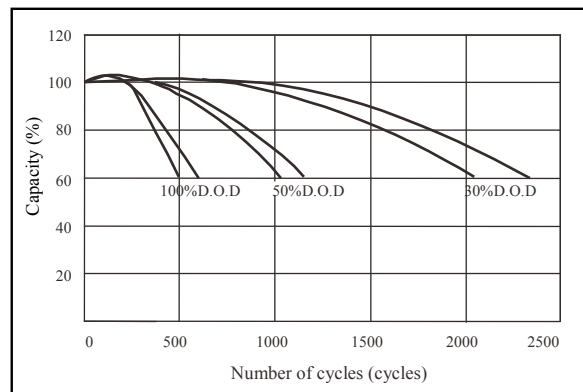
### ● Self-discharge characteristics



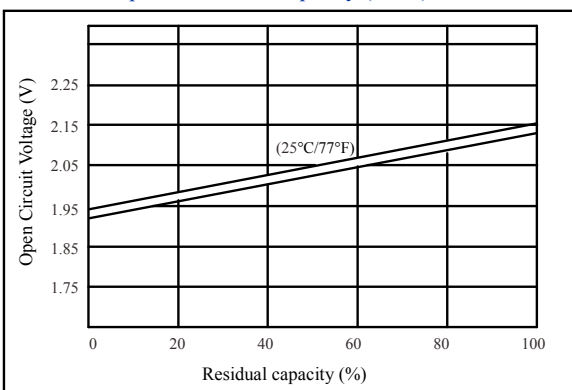
### ● Floating life on temperature



### ● Cycle life on D.O.D (25°C)



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



### ● Relationship for charging voltage and temperature

