

NPG6-180Ah 6V180Ah

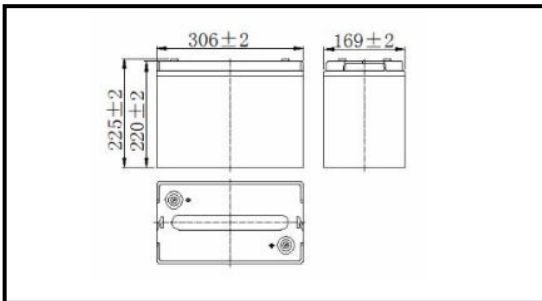
Valve Regulated Lead Acid Battery



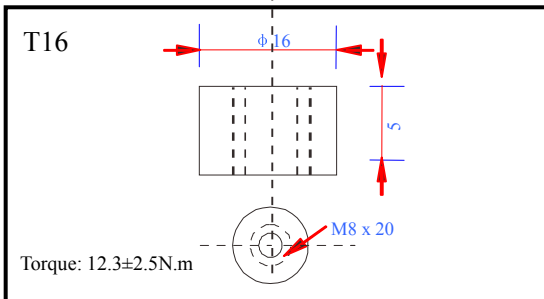
Specifications

Nominal voltage	6V (3 cells per unit)	
Rated capacity (10HR)	180Ah/5.4V	
Dimensions	Length	306±2mm (12.05inch)
	Width	169±2mm (6.65inch)
	Height	220±2mm (8.66inch)
	Total height	225±2mm (8.86inch)
Approx. weight	29.50kg (65.00lbs)±3%	

Outer dimensions (mm)



Terminal type (mm)



Characteristics

Capacity (25°C)	10HR (5.4V)	180Ah
	3HR (5.4V)	135Ah
	1HR (5.25V)	100Ah
Terminal type		T16
Internal resistance (Fully charged, 25°C)		Approx. 2.2mΩ
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)		6.75 to 6.90V Temperature compensation: -9mV/°C/Block
Cyclic charging voltage (25°C)		7.20 to 7.35V Temperature compensation: -15mV/°C/Block
Maximum charging current		36A
Maximum discharge current		1250A (5 sec.)
Design life	12 years for floating (25°C)	
	Eurobat (20°C):10/12 years, 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)

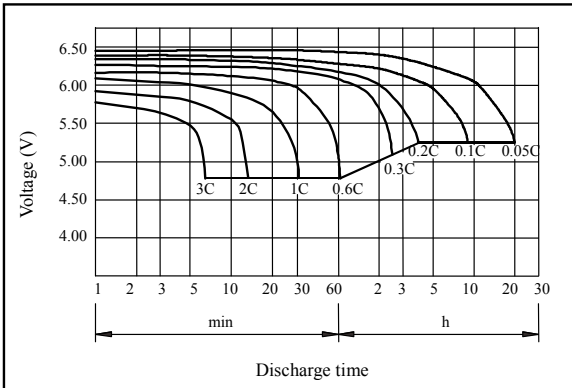
F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
4.80V	351	288	175	108	65.8	46.8	36.7	31.2	22.0	18.3	9.71
4.95V	340	281	171	106	65.4	46.5	36.5	31.0	21.9	18.3	9.69
5.10V	326	271	166	104	64.8	46.2	36.3	30.8	21.8	18.2	9.66
5.25V	312	262	162	100	63.8	45.9	36.0	30.6	21.6	18.1	9.61
5.40V	295	248	156	97.2	62.2	45.0	34.9	29.7	21.0	18.0	9.54

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

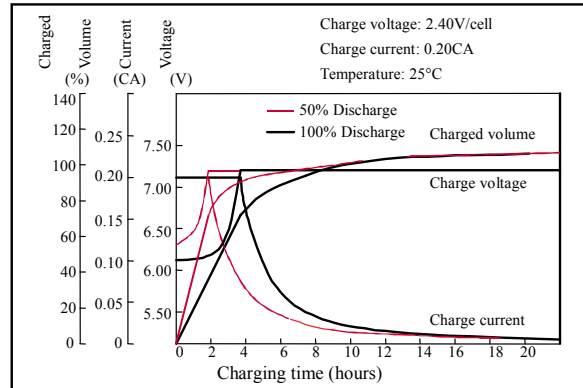
F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
4.80V	1895	1581	980	616	381	275	216	184	131	109	58.3
4.95V	1839	1543	960	606	379	274	215	183	130	109	58.2
5.10V	1763	1486	931	591	375	272	213	182	129	109	58.0
5.25V	1687	1436	908	573	370	270	212	181	128	108	57.6
5.40V	1592	1360	875	554	360	264	205	175	124	107	57.2

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

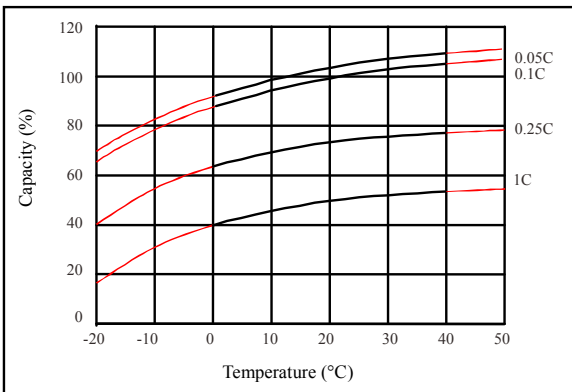
● Discharge characteristics (25°C)



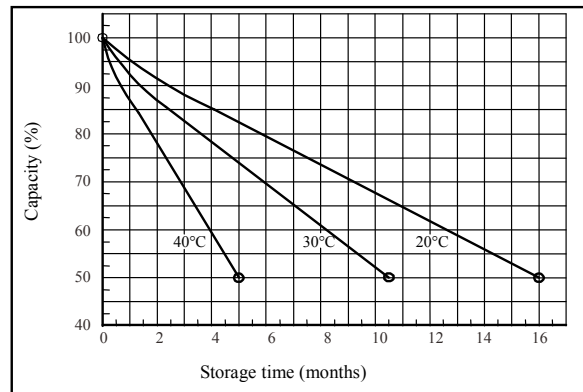
● Charging characteristics (25°C)



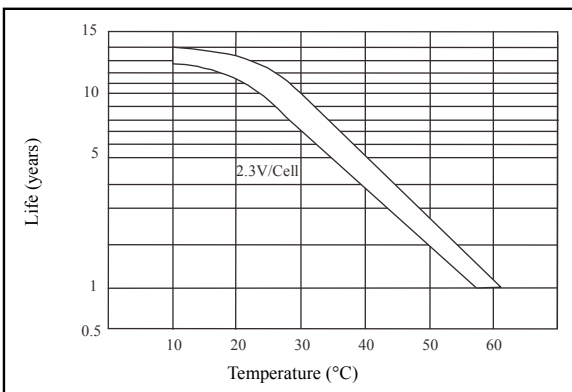
● Temperature effects on capacity



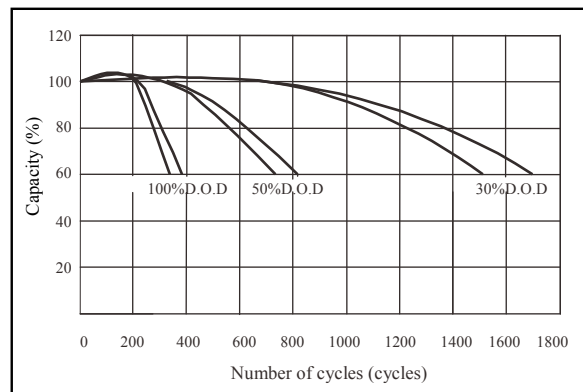
● Self-discharge characteristics



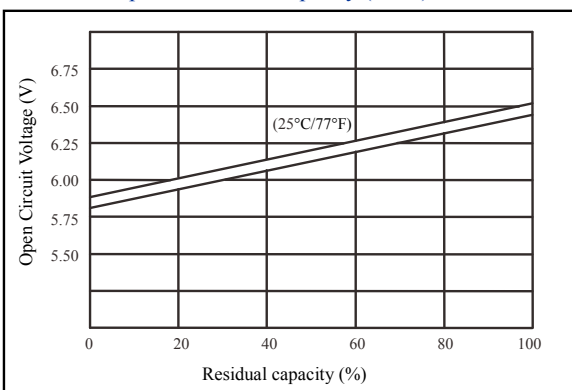
● Floating life on temperature



● Cycle life on D.O.D (25°C)



● Relationship for OCV and capacity (25°C)



● Relationship for charging voltage and temperature

