

## NPG12-65Ah 12V65Ah

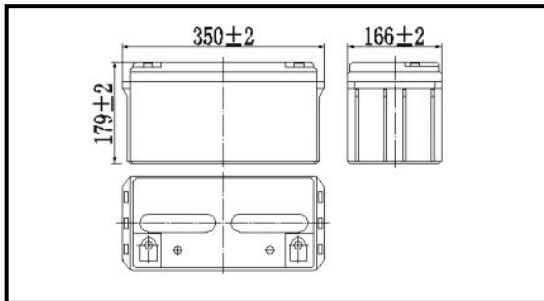
### Valve Regulated Lead Acid Battery



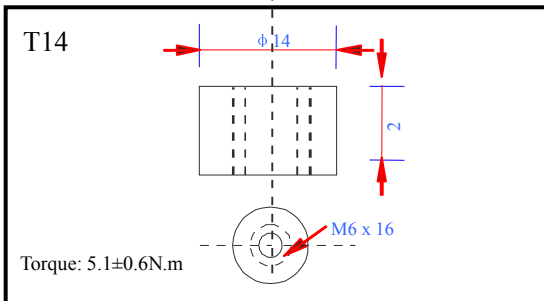
#### Specifications

Nominal voltage	12V (6 cells per unit)	
Rated capacity (10HR)	65Ah/10.8V	
Dimensions	Length	350±2mm (13.78inch)
	Width	166±2mm (6.54inch)
	Height	179±2mm (7.05inch)
	Total height	179±2mm (7.05inch)
Approx. weight	21.00kg (46.30lbs)±3%	

#### Outer dimensions (mm)



#### Terminal type (mm)



#### Characteristics

Capacity (25°C)	10HR (10.8V)	65Ah
	3HR (10.8V)	48Ah
	1HR (10.5V)	36Ah
Terminal type		T14
Internal resistance (Fully charged, 25°C)		Approx. 7mΩ
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)		13.50 to 13.80V Temperature compensation: -18mV/°C/Block
Cyclic charging voltage (25°C)		14.50 to 14.70V Temperature compensation: -30mV/°C/Block
Maximum charging current		13A
Maximum discharge current		650A (5 sec.)
Short circuit current		1853A
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)

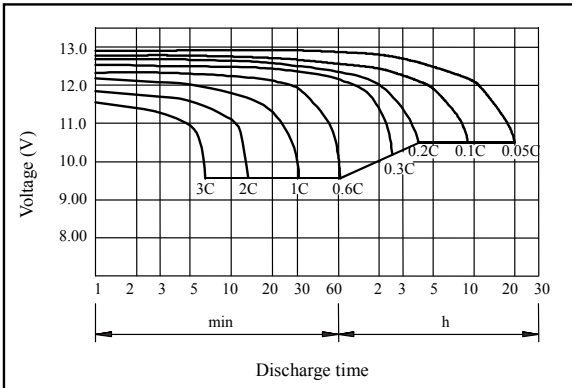
F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	127	104	63.1	39.0	23.8	16.9	13.3	11.3	7.96	6.62	3.51
9.90V	123	102	61.8	38.4	23.6	16.8	13.2	11.2	7.91	6.60	3.50
10.2V	118	97.8	59.9	37.4	23.4	16.7	13.1	11.1	7.85	6.58	3.49
10.5V	113	94.4	58.4	36.3	23.0	16.6	13.0	11.1	7.80	6.55	3.47
10.8V	106	89.4	56.3	35.1	22.5	16.2	12.6	10.7	7.57	6.50	3.45

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

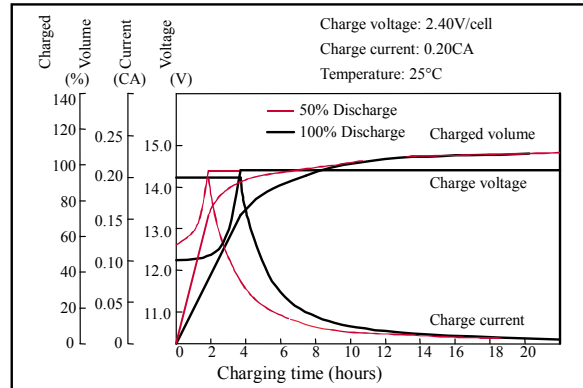
F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	1369	1142	707	445	275	199	156	133	94.5	79.0	42.1
9.90V	1328	1115	693	438	273	198	155	132	94.0	78.9	42.0
10.2V	1273	1073	672	427	271	196	154	132	93.3	78.6	41.9
10.5V	1218	1037	656	413	267	195	153	131	92.7	78.2	41.6
10.8V	1150	982	632	400	260	191	148	124	89.9	77.6	41.3

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

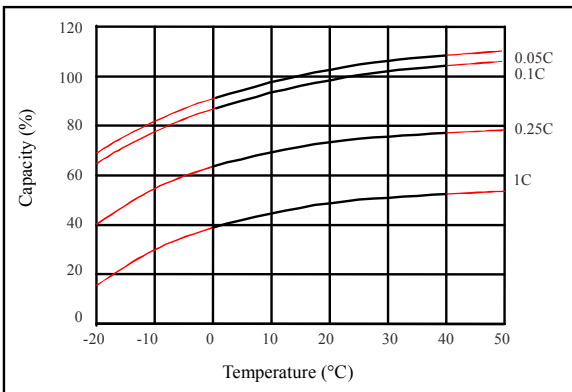
### ● Discharge characteristics (25°C)



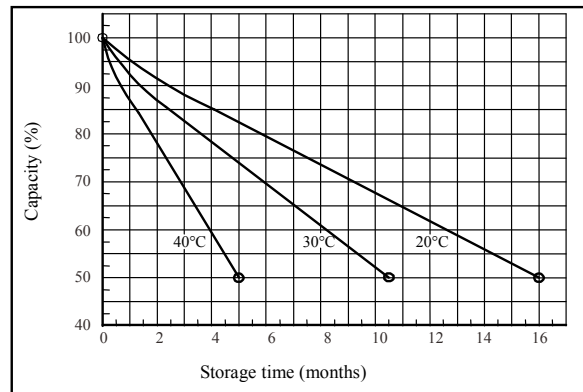
### ● Charging characteristics (25°C)



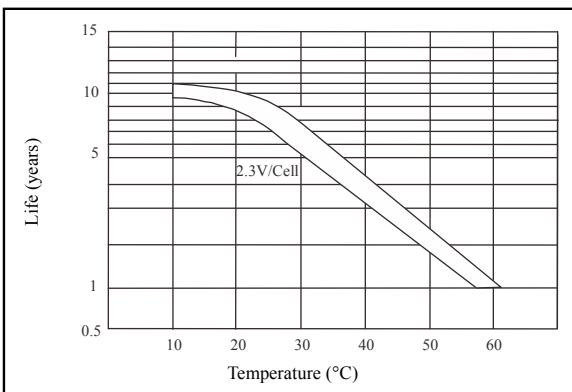
### ● Temperature effects on capacity



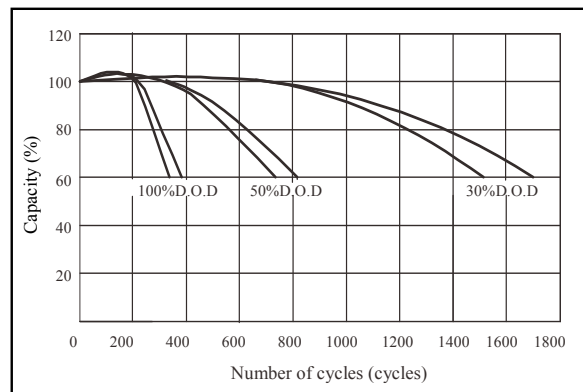
### ● Self-discharge characteristics



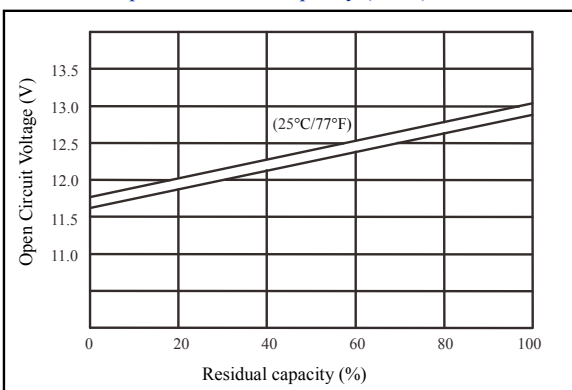
### ● Floating life on temperature



### ● Cycle life on D.O.D (25°C)



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



### ● Relationship for charging voltage and temperature

