

## NP6-2.8Ah 6V2.8Ah

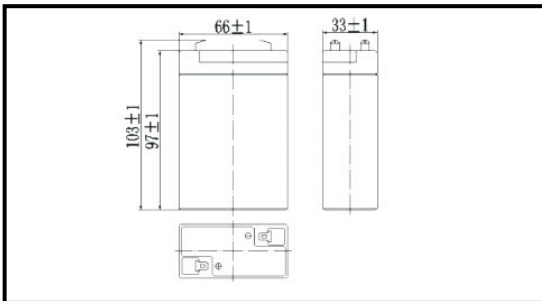
### Valve Regulated Lead Acid Battery



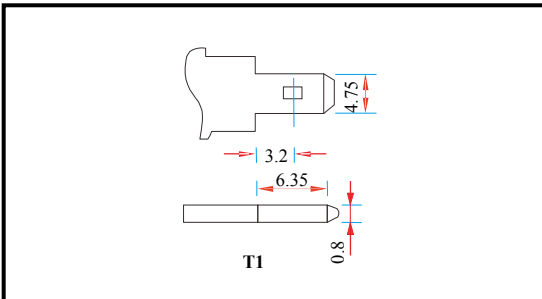
#### ● Specifications

Nominal voltage	6V (3 cells per unit)	
Rated capacity (20HR)	2.8Ah/5.25V	
Dimensions	Length	66±1mm (2.60inch)
	Width	33±1mm (1.30inch)
	Height	97±1mm (3.82inch)
	Total height	103±1mm (4.06inch)
Approx. weight	0.48kg (1.06lbs)±5%	

#### ● Outer dimensions (mm)



#### ● Terminal type (mm)



#### ● Characteristics

Capacity (25°C)	20HR (5.25V)	2.8Ah
	10HR (5.25V)	2.6Ah
	1HR (4.80V)	1.8Ah
Terminal type		T1
Internal resistance (Fully charged, 25°C)		Approx. 27mΩ
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)		6.80 to 6.90V Temperature compensation: -9mV/°C/Block
Cyclic charging voltage (25°C)		7.25 to 7.50V Temperature compensation: -15mV/°C/Block
Maximum charging current		0.84A
Maximum discharge current		42A (5 sec.)
Design life	5 years for floating (25°C)	
	Eurobat (20°C): 3-5 years, standard commercial.	

#### ● 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)

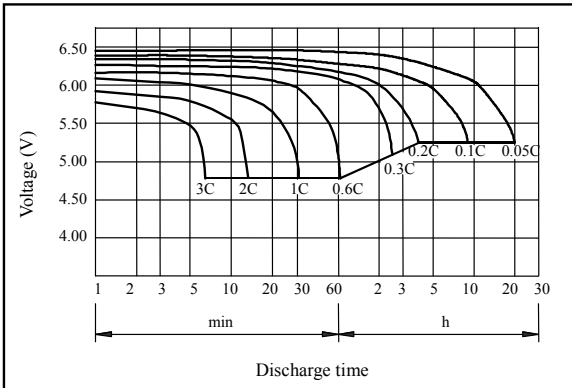
F.V/Time	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
4.80V	10.7	6.78	5.29	2.98	1.83	1.00	0.69	0.57	0.49	0.27	0.14
4.95V	10.4	6.57	5.16	2.92	1.81	1.00	0.69	0.57	0.49	0.26	0.14
5.10V	9.95	6.30	4.97	2.83	1.76	0.99	0.69	0.57	0.48	0.26	0.14
5.25V	9.52	6.03	4.81	2.76	1.73	0.97	0.68	0.56	0.48	0.26	0.14
5.40V	8.98	5.69	4.55	2.66	1.67	0.95	0.66	0.55	0.46	0.26	0.14

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

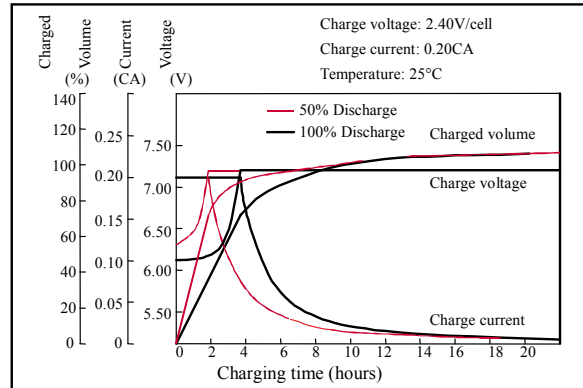
F.V/Time	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
4.80V	59.7	38.2	30.2	17.1	10.6	5.87	4.12	3.42	2.92	1.59	0.85
4.95V	57.9	37.1	29.4	16.7	10.5	5.83	4.10	3.40	2.90	1.58	0.85
5.10V	55.5	35.5	28.4	16.2	10.2	5.78	4.07	3.37	2.88	1.58	0.85
5.25V	53.1	34.0	27.4	15.8	10.0	5.70	4.04	3.35	2.86	1.57	0.84
5.40V	50.1	32.1	25.9	15.3	9.68	5.55	3.92	3.25	2.77	1.54	0.82

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

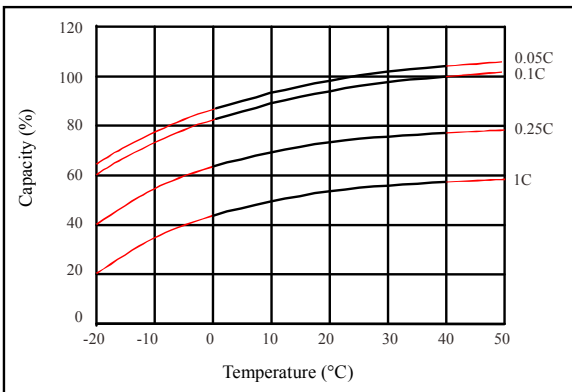
### ● Discharge characteristics (25°C)



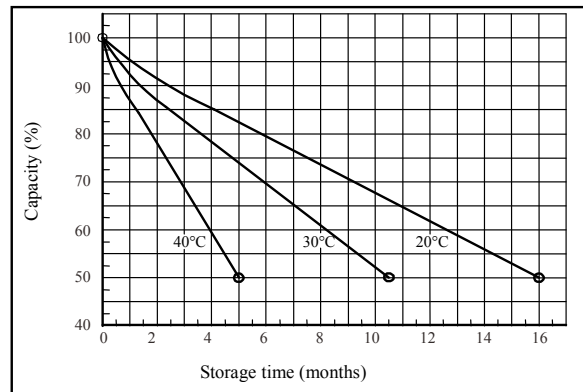
### ● Charging characteristics (25°C)



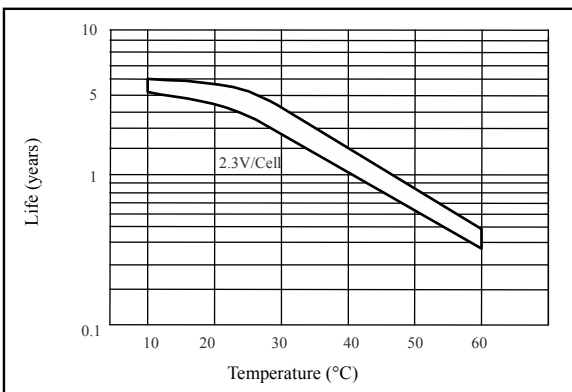
### ● Temperature effects on capacity



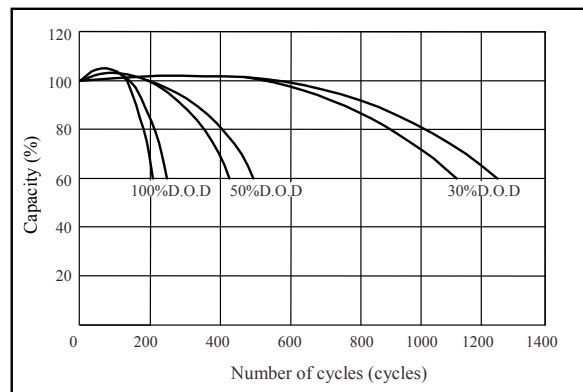
### ● Self-discharge characteristics



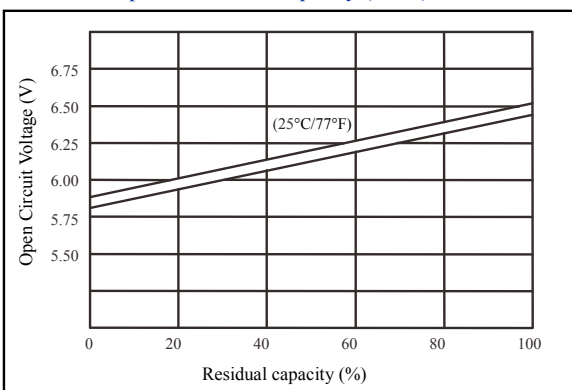
### ● Floating life on temperature



### ● Cycle life on D.O.D (25°C)



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



### ● Relationship for charging voltage and temperature

