



Specifications

Nominal Voltage	12V (6 cells per unit)	
Nominal Capacity (10HR)	65Ah/10.8V	
Dimensions	Length	350 ±2mm
	Width	166 ±2mm
	Height	179 ±2mm
	Total height	179 ±2mm
Approx. Weight	21.00kg±3%	
Terminal Type	T14	
Rated Capacity (25°C)	10HR (10.8V)	65Ah
	3HR (10.8V)	51Ah
	1HR (10.5V)	37Ah
Max. Discharge Current	650A (5 sec)	
Max. Charging Current	19.5A	
Internal Resistance (Fully charged, 25°C)	Approx. 6.5mΩ	
Operating Temp. 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)
Nominal Operating Temp.	25°C±3°C (77°F±5°F)	
Cyclic Charging Voltage (25°C)	14.60 to 15.00V Temperature compensation : -30mV/°C/Block	
Float Charging Voltage (25°C)	13.60 to 13.70V Temperature compensation : -18mV/°C/Block	
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%
Design Life	10 years for floating (25°C)	
	Eurobat (20°C): 6-9 years, general purpose.	

Applications

- ◆ Uninterruptable Power Supply (UPS)
- ◆ Electric Power System (EPS)
- ◆ Emergency backup power supply
- ◆ Alarm and security system
- ◆ Electronic apparatus and equipment
- ◆ Communication power supply
- ◆ Solar Power System

Remarks:

- Use in normal climate environment with standard range of regulated powered electricity.
- Falling, hitting, bending, etc. may cause degradation of battery characteristics.

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)

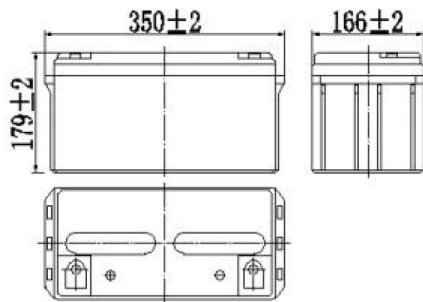
F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	148	114	68.3	42.0	24.8	17.9	14.3	12.2	8.39	6.92	3.67
9.90V	144	111	67.0	41.4	24.7	17.8	14.2	12.1	8.34	6.91	3.66
10.2V	138	107	64.9	40.3	24.5	17.7	14.1	12.1	8.29	6.89	3.65
10.5V	132	104	63.4	39.1	24.1	17.5	14.0	12.0	8.23	6.85	3.63
10.8V	125	98.2	61.0	37.8	23.5	17.0	13.6	11.6	7.98	6.80	3.60

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

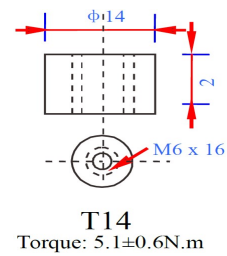
F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	1601	1254	767	479	288	210	168	144	99.7	82.7	44.0
9.90V	1553	1224	751	472	286	209	167	143	99.1	82.5	43.9
10.2V	1489	1179	728	460	283	208	166	142	98.4	82.2	43.8
10.5V	1425	1139	711	446	279	206	165	141	97.7	81.8	43.6
10.8V	1345	1079	685	431	272	200	160	137	94.8	81.2	43.2

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

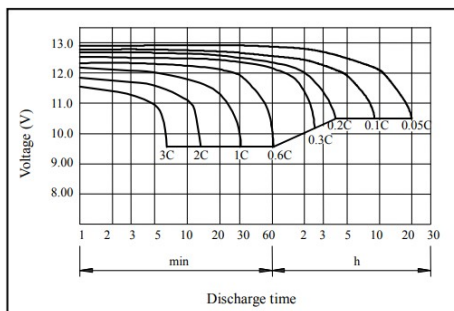
Outer dimensions (mm)



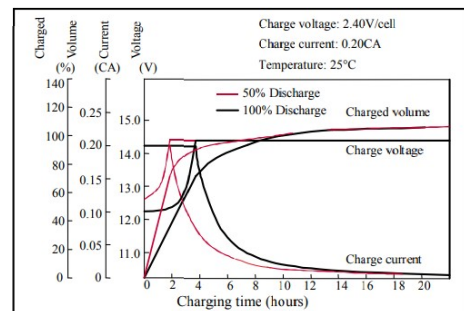
Terminal type (mm)



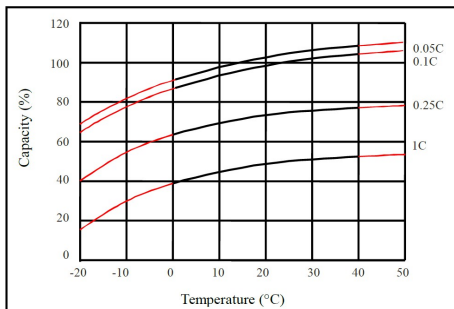
Discharge characteristics (25°C)



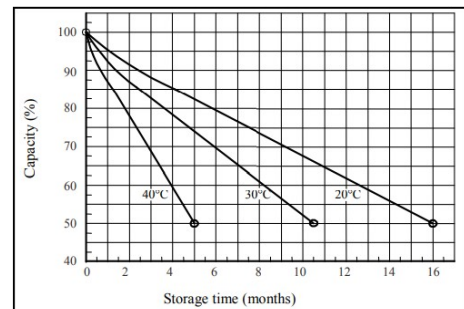
Charging characteristics (25°C)



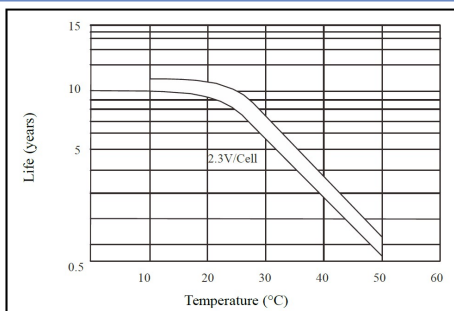
Temperature effects on capacity



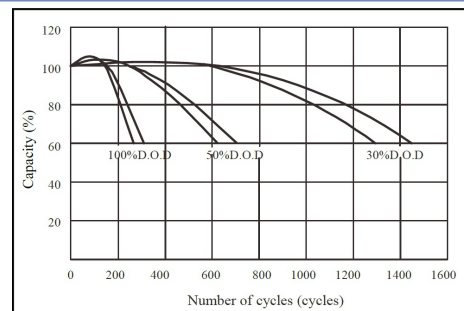
Self-discharge characteristics



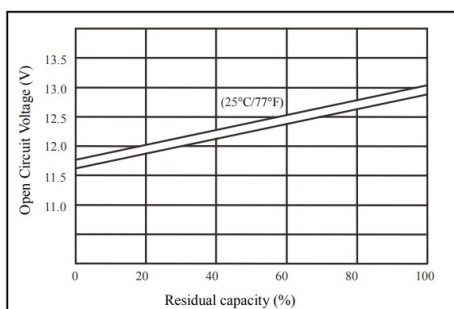
Floating life on temperature



Cycle life on D.O.D (25°C)



Relationship for OCV and capacity (25°C)



Relationship for charging voltage and temperature

