

Specification

Nominal Voltage	12V	
Nominal Capacity(20HR)	100.0AH	
Dimension	Length	331 ±3mm (13.03 inches)
	Width	173 ±2mm (6.81 inches)
	Container Height	213 ±3mm (8.39 inches)
	Total Height (with Terminal)	218 ±3mm (8.58 inches)
Approx Weight	Approx 30.0 kg (+-%5)	
Design Life	10 years for standby use	
Container Material	ABS	
Rated Capacity	100.0AH/5.00A	(20hr, 10.8V/cell, 25°C/77°F)
	92.0 AH/9.2A	(10hr, 10.5V/cell, 25°C/77°F)
	85.0 AH/17.0A	(5hr, 10.2V/cell, 25°C/77°F)
	60.0 AH/60.0A	(1hr, 9.6V/cell, 25°C/77°F)
Max. Discharge Current	1000A (5s)	
Internal Resistance	Approx 7mΩ	
Operating Temp. Range	Discharge : -20~55°C (-4~131°F)	
	Charge : 0~40°C (32~104°F)	
	Storage : -20~50°C (-4~122°F)	
Nominal Operating Temp. Range	25 ±3°C (77 ±5°F)	
Cycle Use	Initial Charging Current less than 24.0A. Voltage	
	14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Standby Use	No limit on Initial Charging Current Voltage	
	13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C	
Capacity affected by Temperature	40°C (104°F)	102%
	25°C (77°F)	100%
	0°C (32°F)	85%
Self Discharge	Eurostar batteries may be stored for up to 9 months	
	25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	



Applications

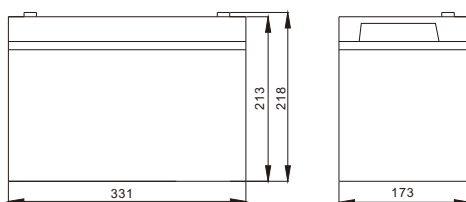
- ◆ Telecommunications
- ◆ Solar system
- ◆ Wind power system
- ◆ Wheelchair
- ◆ Floor cleaning machines
- ◆ Golf trolley
- ◆ Boats



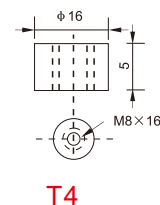
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C (77°F)

Time		5min	10min	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
9.60V	A	295.1	194.3	156.3	105.5	55.2	32.2	23.6	18.4	15.2	10.8	9.7	5.2
	W	3041.3	2073.4	1678.4	1128.8	596.4	354.3	263.2	207.0	172.6	123.4	111.6	60.7
10.20V	A	285.4	175.5	147.5	100.2	52.1	31.4	23.0	17.9	14.9	10.5	9.5	5.1
	W	3048.1	1956.4	1649.7	1126.4	587.3	354.6	266.3	208.6	173.8	122.7	111.3	59.4
10.50V	A	276.6	157.1	129.5	94.2	50.3	30.1	22.4	17.7	14.7	10.4	9.3	5.1
	W	3015.4	1782.8	1471.8	1080.6	582.4	348.7	261.6	206.7	172.6	122.3	109.9	59.8
10.80V	A	266.5	148.6	120.5	86.1	49.1	29.3	21.9	17.4	14.4	10.1	9.2	5.0
	W	2985.1	1703.5	1380.7	1002.5	565.7	343.1	258.2	250.3	169.6	119.9	109.4	59.2
11.10V	A	257.3	138.3	111.3	77.4	47.6	29.4	21.2	16.9	14.0	9.8	8.7	4.7
	W	2916.5	1602.4	1287.1	904.6	552.8	337.6	251.4	201.6	166.9	117.9	105.5	56.9

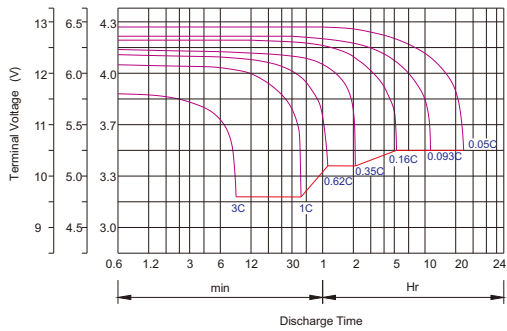
Outer dimensions (mm)



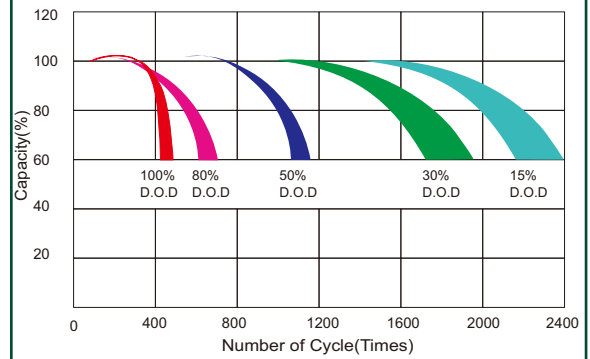
Terminal Type (mm)



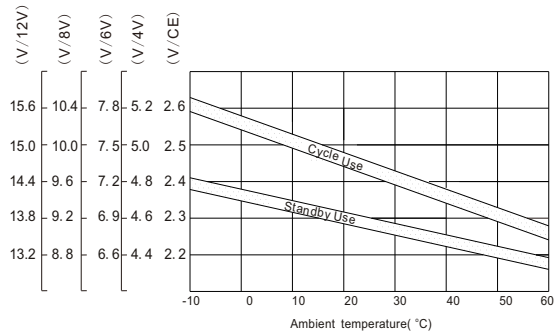
Discharge characteristic Curve



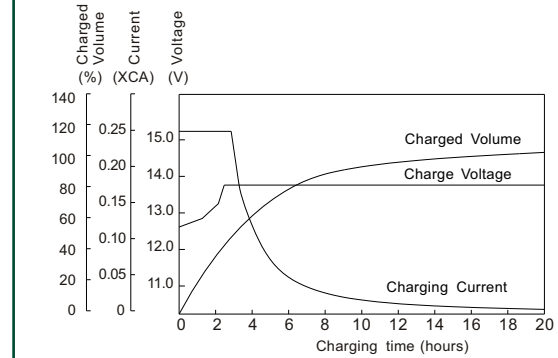
Cycle service life in relation to depth of discharge



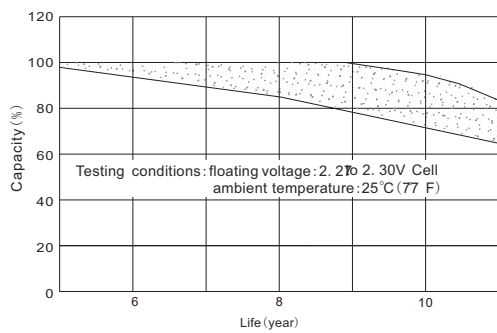
Relationship between charging voltage and temperature



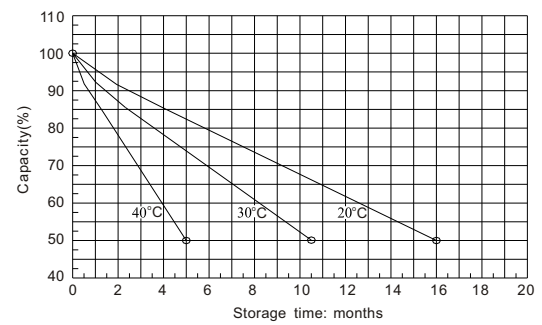
Constant voltage charging characteristic (0.25CA, at 25°C)



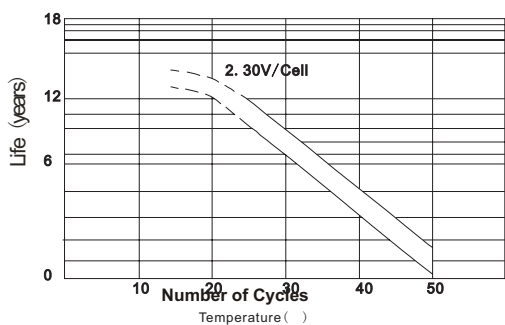
Life characteristics of standby use



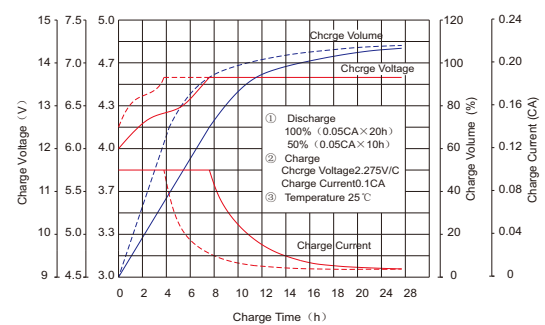
Self-discharge characteristic



Temperature effects on float life



Charge characteristic Curve for standby use



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