

Specifications

Nominal Voltage		12 V
Capacity (25°C)	20HR(10.5V)	40Ah
	5HR(10.2V)	31.2Ah
	1HR(9.6V)	23.3Ah
Dimension	Length	197 ± 2mm (7.75inch)
	Width	165 ± 2mm (6.50inch)
	Height	170 ± 2mm (6.69inch)
	Total Height	170 ± 2mm (6.69inch)
Approx. Weight		12.5kg (27.5lbs) ± 4%
Terminal type		T9
Internal resistance (Fully charged, 25°C)		Approx.9.5m Ω
Capacity affected by temperature (10HR)	40°C	103%
	25°C	100%
	0°C	88%
	-15°C	70%
Self-discharge (25°C)	3 month	Remaining Capacity: 94%
	6 month	Remaining Capacity: 88%
	12 month	Remaining Capacity: 75%
Nominal operating temperature		25°C ± 3°C (77°F ± 5°F)
Operating temperature range	Discharge	-15°C ~ 55°C (5°F ~ 131°F)
	Charge	-10°C ~ 55°C (14°F ~ 131°F)
	Storage	-20°C ~ 55°C (-4°F ~ 131°F)
Float charging voltage(25°C)		13.50 to 13.80V Temperature compensation: -18mV/°C
Cyclic charging voltage(25°C)		14.10 to 14.40V Temperature compensation: -30mV/°C
Maximum charging current		8 A
Terminal material		Copper
Maximum discharge current		400A(5 sec.)
Designed floating life(20°C)		15 years

- ◆ Gelled electrolyte technology;
- ◆ PVC separator;
- ◆ Recognized by UL & CE;
- ◆ ABS container.

Constant Current Discharge Characteristics (A, 25°C)

F.V/TIME	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	48h	120h
9.60V	54.0	37.3	23.3	13.6	9.60	7.56	6.32	5.40	4.20	3.75	2.04	---	---
9.90V	52.8	36.5	22.9	13.5	9.52	7.52	6.28	5.36	4.16	3.74	2.04	---	---
10.2V	50.8	35.4	22.4	13.4	9.48	7.44	6.24	5.32	4.16	3.73	2.02	0.89	---
10.5V	49.2	34.6	21.9	13.2	9.40	7.40	6.20	5.28	4.12	3.70	2.00	0.89	0.37
10.8V	46.4	33.3	21.2	12.9	9.12	7.16	6.00	5.12	4.00	3.68	2.00	0.89	0.37

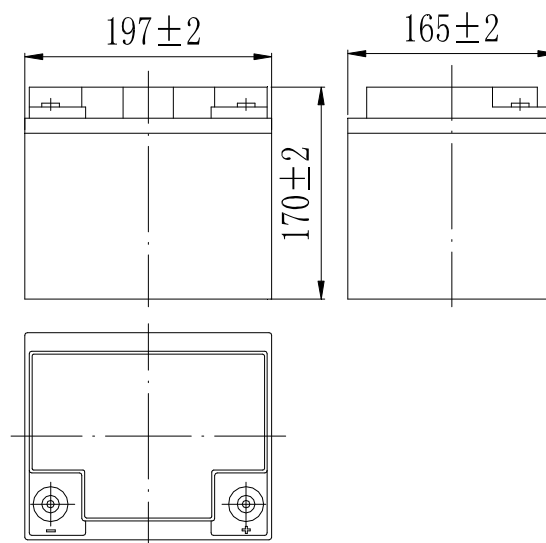
Constant Power Discharge Characteristics (Watt, 25°C)

F.V/TIME	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	48h	120h
9.60V	603	425	268	158	113	89.2	75.2	64.0	50.0	44.8	24.6	---	---
9.90V	588	416	264	157	113	88.8	74.8	63.6	50.0	44.8	24.6	---	---
10.2V	566	404	258	156	112	88.0	74.0	63.2	49.6	44.6	24.5	10.7	---
10.5V	547	394	252	154	111	87.6	73.6	62.8	49.2	44.4	24.1	10.6	4.44
10.8V	518	380	244	150	108	84.8	71.6	60.8	47.6	44.0	24.2	10.6	4.40

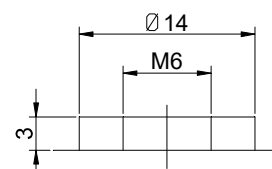
Note: The above characteristics data can be obtained within three charge/discharge cycles.



Dimensions

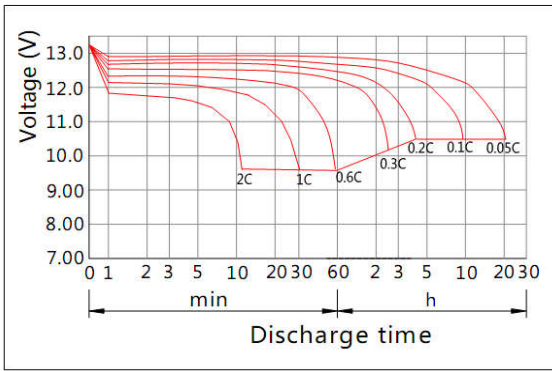


Terminal

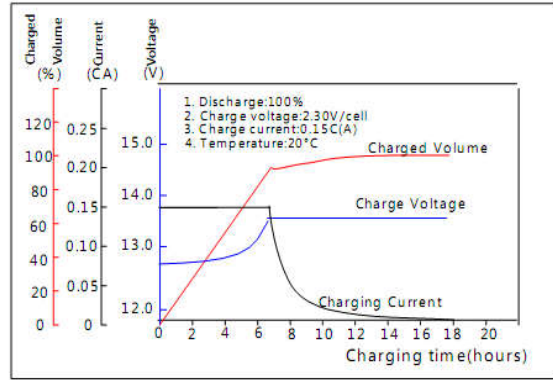


Terminal T9

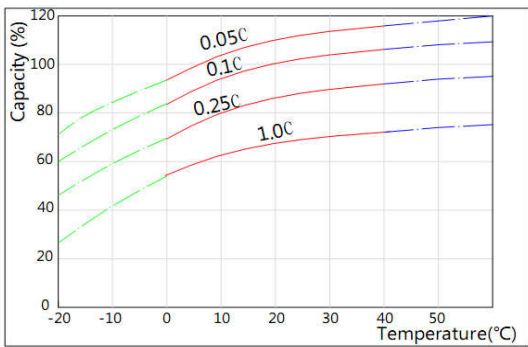
Discharge Characteristics(25°C)



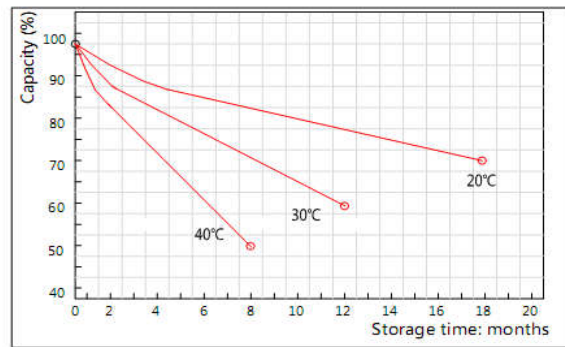
Charging Characteristics(25°C)



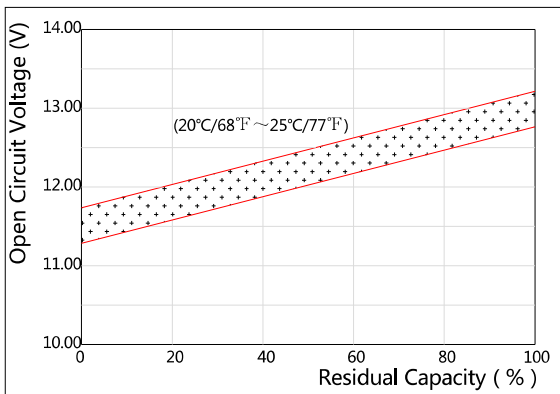
Effect of Temperature on Capacity



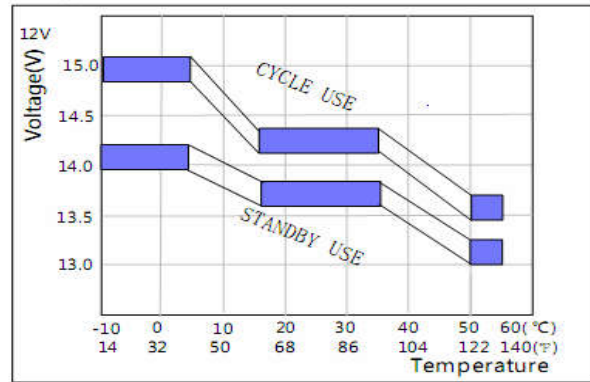
Self-discharge Characteristics



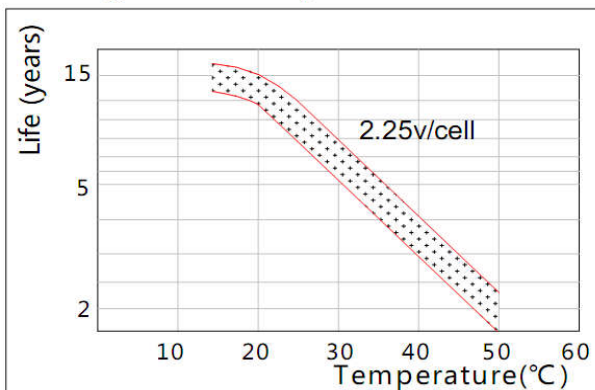
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)

