

Specifications

Nominal Voltage		12 V
Capacity (25°C)	10HR(10.8V)	50Ah
	5HR(10.2V)	42.9Ah
	1HR(9.6V)	32.0Ah
Dimension	Length	229 ± 2mm (9.02inch)
	Width	138 ± 2mm (5.43inch)
	Height	208 ± 2mm (8.2inch)
	Total Height	208 ± 2mm (8.2inch)
Approx. Weight		17.5kg (38.5lbs) ± 4%
Terminal type		T9
Internal resistance (Fully charged, 25°C)		Approx. 7 mΩ
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		11 A
Terminal material		Copper
Maximum discharge current		550A(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)

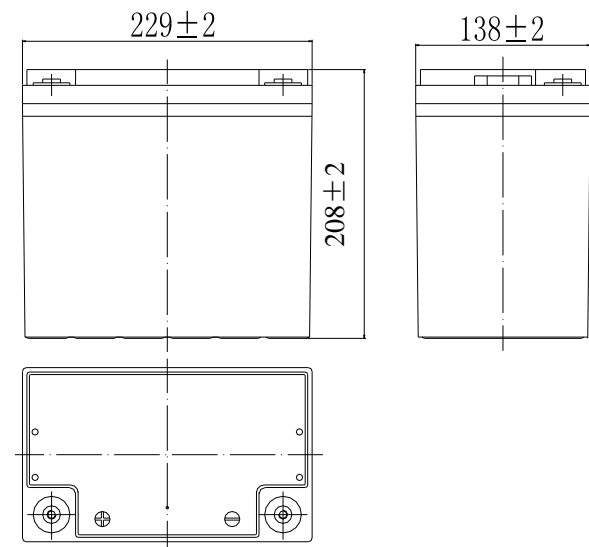
F.V/TIME	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	48h	120h
9.60V	74.3	51.3	32.0	18.7	13.2	10.4	8.69	7.43	5.78	5.15	2.81	---	---
9.90V	72.6	50.2	31.5	18.6	13.1	10.3	8.64	7.37	5.72	5.14	2.81	----	---
10.2V	69.9	48.7	30.7	18.4	13.0	10.2	8.58	7.32	5.72	5.13	2.80	1.23	---
10.5V	67.7	47.5	30.1	18.2	12.9	10.2	8.53	7.26	5.67	5.09	2.75	1.22	0.51
10.8V	63.8	45.8	29.2	17.7	12.5	9.85	8.25	7.04	5.49	5.06	2.75	1.22	0.51

Constant Power Discharge Characteristics (Watt, 25°C)

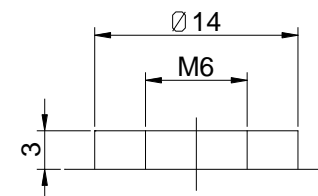
F.V/TIME	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	48h	120h
9.60V	829	584	369	218	156	123	103	88.0	68.8	61.6	33.9	---	---
9.90V	809	573	363	216	155	122	103	87.5	68.8	61.6	33.8	----	---
10.2V	779	555	354	215	154	121	102	86.9	68.2	61.4	33.5	14.7	---
10.5V	752	542	347	211	153	120	101	86.4	67.7	61.1	33.2	14.6	6.11
10.8V	713	522	336	206	148	117	98.5	83.6	65.5	60.5	33.3	14.6	6.05

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

Dimensions

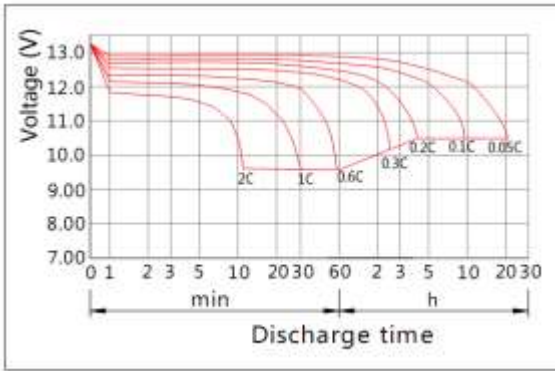


Terminal

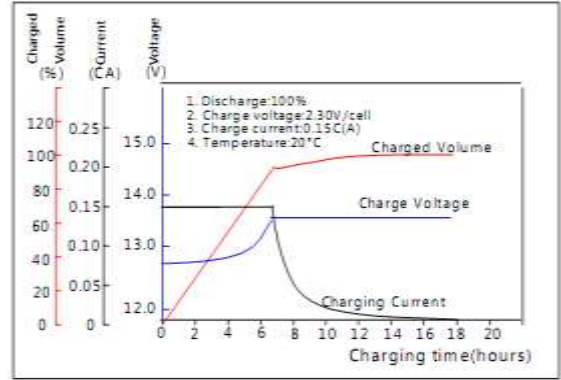


Terminal T9

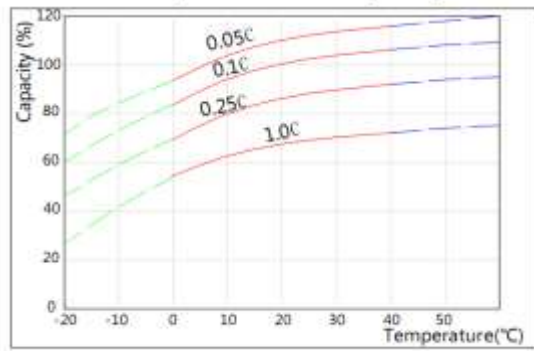
Discharge Characteristics(25°C)



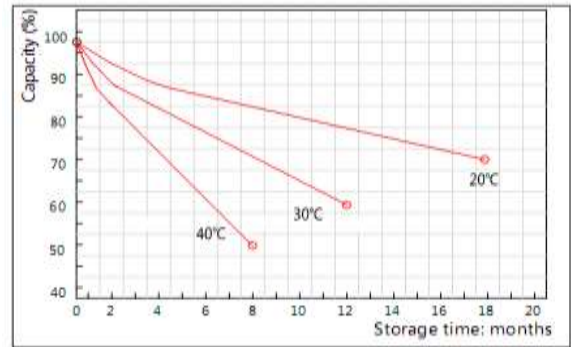
Charging Characteristics(25°C)



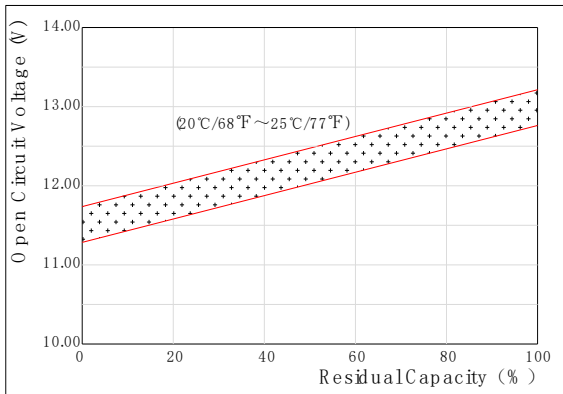
Effect of Temperature on Capacity



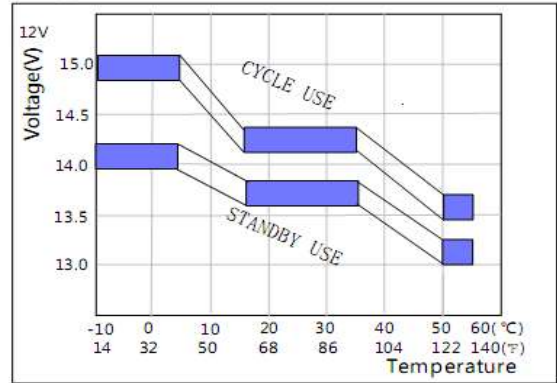
Self-discharge Characteristics



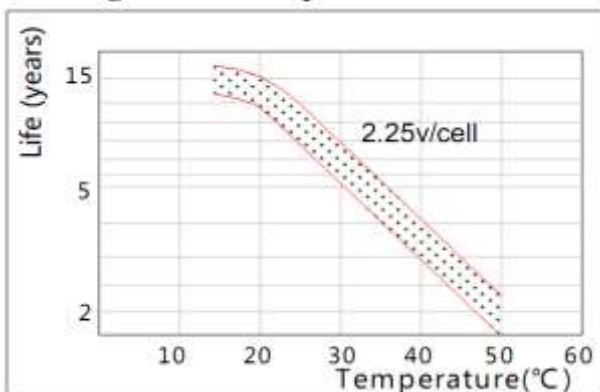
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)

