

Specifications

Nominal Voltage		12 V
Capacity (25°C)	20HR(10.5V)	50 Ah
	5HR(10.2V)	41.5Ah
	1HR(9.6V)	29.1Ah
Dimension	Length	277 ± 2mm (10.91inch)
	Width	106 ± 2mm (4.17inch)
	Height	221 ± 2mm (8.70inch)
	Total Height	221 ± 2mm (8.70inch)
Approx. Weight		17kg (37.4lbs) ± 4%
Terminal type		T9
Internal resistance (Fully charged, 25°C)		Approx. 7.2m 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		10A
Terminal material		Copper
Maximum discharge current		500A(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	75.0	45.9	29.1	17.2	12.0	9.85	8.45	7.40	5.80	4.83	2.53	---	---
9.90V	73.0	45.0	28.6	17.1	11.9	9.80	8.40	7.35	5.75	4.79	2.52	---	---
10.2V	70.5	43.7	27.9	17.0	11.9	9.70	8.30	7.30	5.70	4.79	2.52	1.12	---
10.5V	68.0	42.5	27.3	16.7	11.8	9.65	8.30	7.25	5.65	4.76	2.50	1.11	0.46
10.8V	64.5	40.9	26.5	16.3	11.4	9.35	8.05	7.05	5.50	4.73	2.49	1.11	0.46

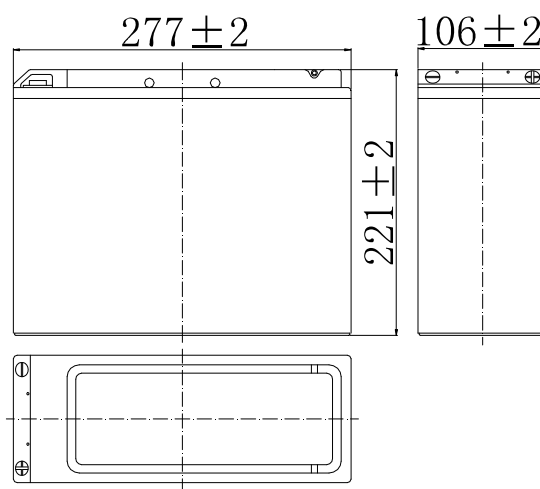
Constant Power Discharge Characteristics (Watt, 25°C)

F.V/TIME	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	48h	120h
9.60V	739	526	332	197	141	111	94.0	80.0	62.5	56.0	30.8	---	---
9.90V	721	516	327	196	141	111	93.5	79.5	62.5	56.0	30.8	---	---
10.2V	694	500	319	194	140	110	92.5	79.0	62.0	56.0	30.7	13.4	---
10.5V	671	488	313	191	139	109	92.0	78.5	61.5	55.5	30.2	13.3	5.55
10.8V	635	470	303	186	134	106	89.5	76.0	59.5	55.0	30.3	13.3	5.50

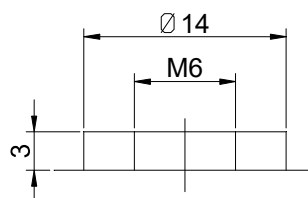
Note: The above characteristics data can be obtained within three charge/discharge cycles.



Dimensions

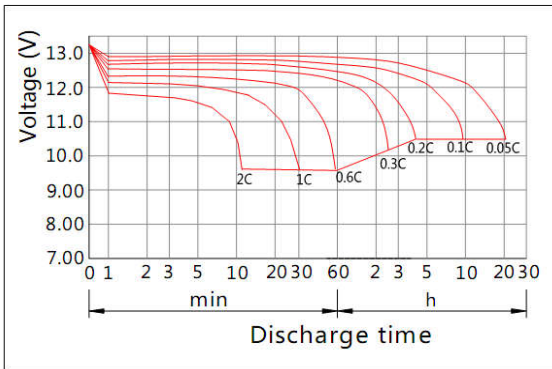


Terminal

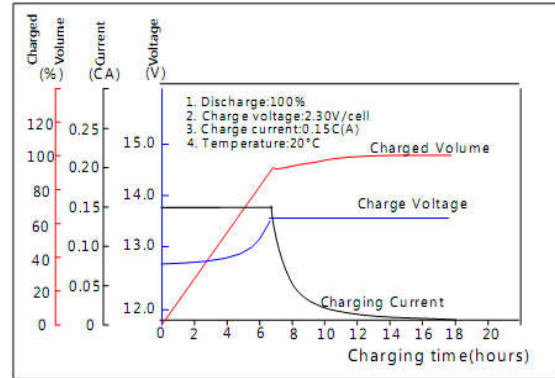


Terminal T9

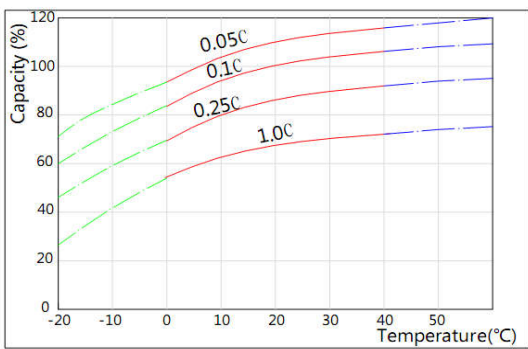
Discharge Characteristics(25°C)



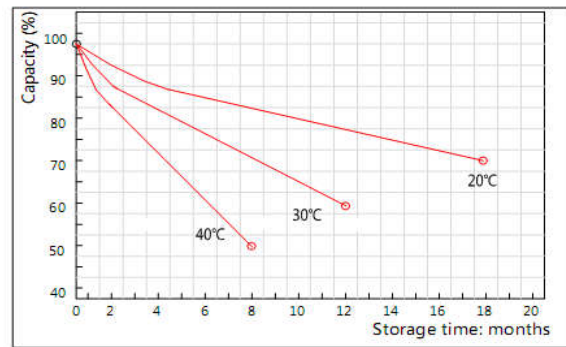
Charging Characteristics(25°C)



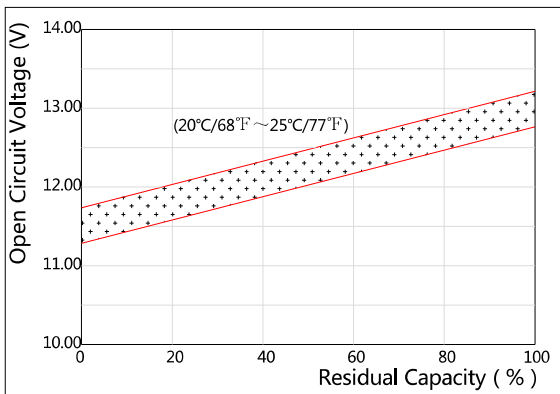
Effect of Temperature on Capacity



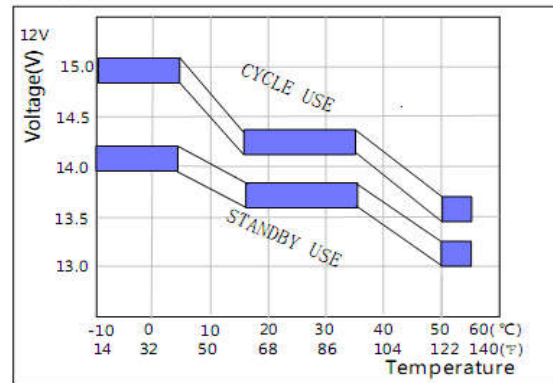
Self-discharge Characteristics



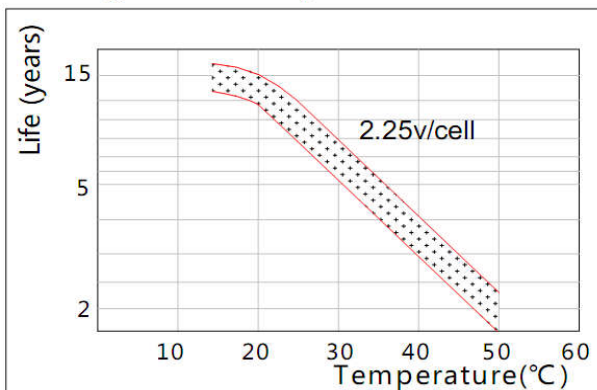
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)

