

**Specifications**

Nominal Voltage		12 V
Capacity (25°C)	20HR(10.5V)	150 Ah
	5HR(10.2V)	124.5 Ah
	1HR(9.6V)	87.2Ah
Dimension	Length	551 ± 3mm (21.69inch)
	Width	110 ± 2mm (4.33inch)
	Height	287 ± 2mm (11.30inch)
	Total Height	287 ± 2mm (11.30inch)
Approx. Weight		47kg (103.4lbs) ± 4%
Terminal type		T9
Internal resistance (Fully charged, 25°C)		Approx. 4m 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		30A
Terminal material		Copper
Maximum discharge current		1500A(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	225	138	87.2	51.6	36.0	29.6	25.4	22.2	17.4	14.5	7.59	---	---
9.90V	219	135	85.8	51.3	35.7	29.4	25.2	22.1	17.3	14.4	7.56	---	---
10.2V	212	131	83.6	50.9	35.6	29.1	24.9	21.9	17.1	14.4	7.55	3.35	---
10.5V	204	127	81.9	50.1	35.3	29.0	24.9	21.8	17.0	14.3	7.50	3.33	1.38
10.8V	194	123	79.4	48.8	34.2	28.1	24.2	21.2	16.5	14.2	7.46	3.33	1.38

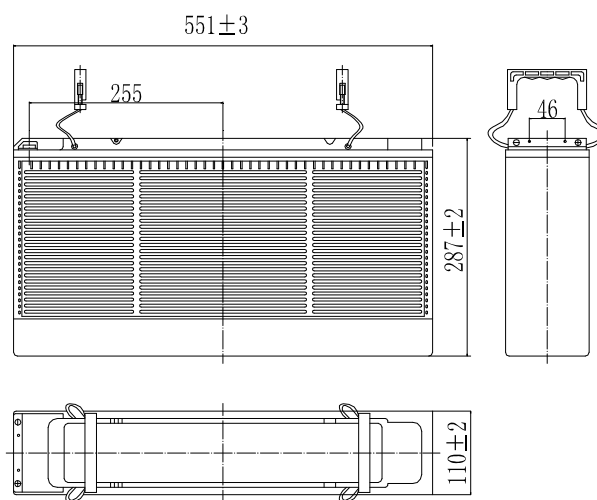
**Constant Power Discharge Characteristics (Watt, 25°C)**

F.V/TIME	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	48h	120h
9.60V	2216	1577	995	591	423	333	282	240	188	168	92.4	---	---
9.90V	2162	1547	980	587	422	332	281	239	188	168	92.3	---	---
10.2V	2082	1499	957	582	419	329	278	237	186	168	92.0	40.2	---
10.5V	2012	1463	938	573	416	327	276	236	185	167	90.5	39.9	16.7
10.8V	1905	1410	908	558	402	317	269	228	179	165	90.8	39.9	16.5

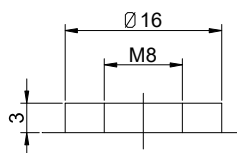
Note: The above characteristics data can be obtained within three charge/discharge cycles.



**Dimensions**

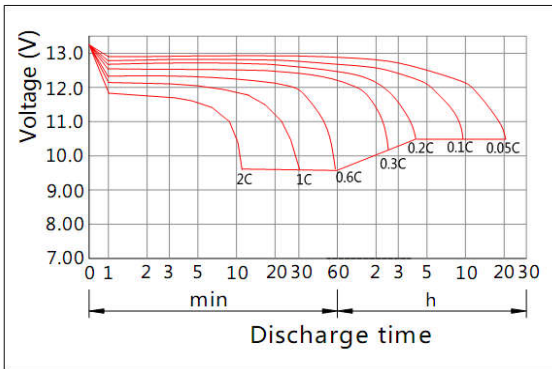


**Terminal**

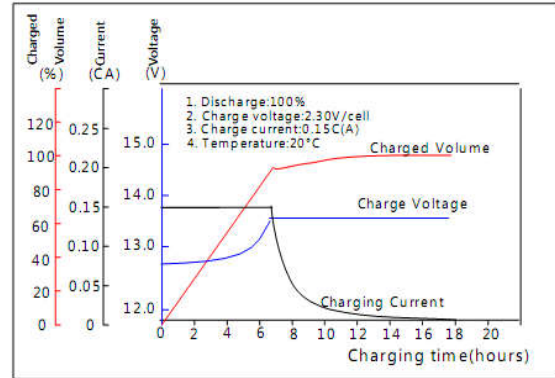


Terminal T11

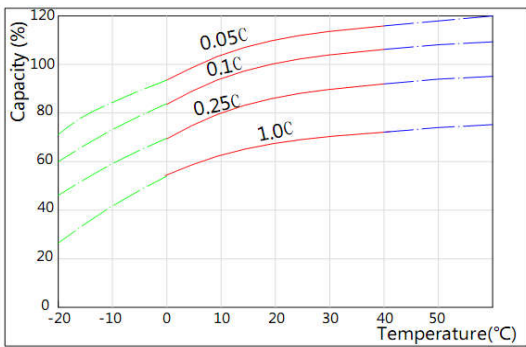
Discharge Characteristics(25°C)



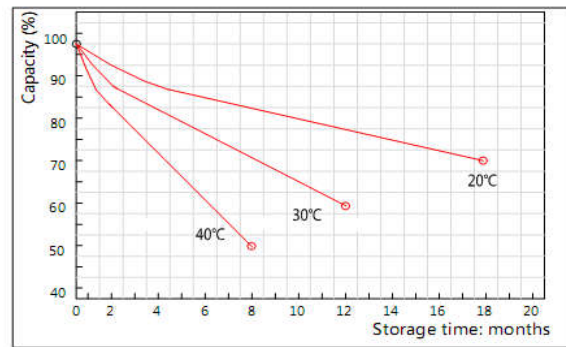
Charging Characteristics(25°C)



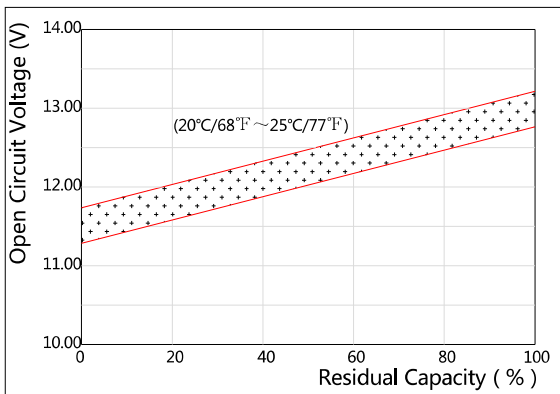
Effect of Temperature on Capacity



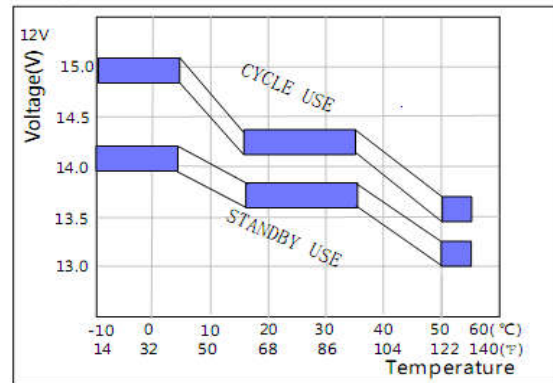
Self-discharge Characteristics



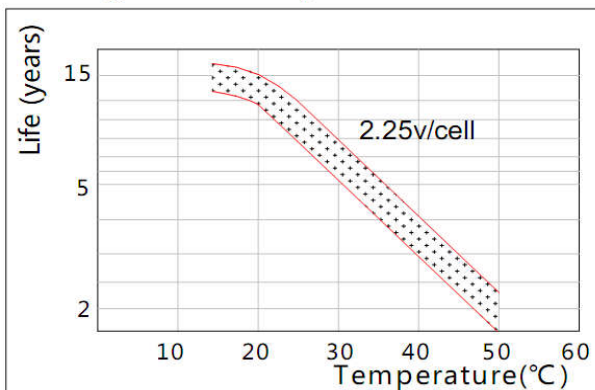
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)

