

Specifications

Nominal Voltage		12 V
Capacity (25℃)	20HR(10.5V)	120Ah
	5HR(10.2V)	93.5Ah
	1HR(9.6V)	69.8Ah
Dimension	Length	409±2mm (16.1inch)
	Width	176±2mm (6.93inch)
	Height	225±2mm (8.86inch)
	Total Height	225±2mm (8.86inch)
Approx. Weight		37kg (81.6lbs) ±4%
Terminal type		T11
Internal resistance (Fully charged, 25℃)		Approx. 4.4mΩ
Capacity affected by temperature (10HR)	40℃	103%
	25℃	100%
	0℃	88%
	-15℃	70%
Self-discharge (25℃)	3 month	Remaining Capacity: 94%
	6 month	Remaining Capacity: 88%
	12 month	Remaining Capacity: 75%
Nominal operating temperature		25℃±3℃(77°F±5°F)
Operating temperature range	Discharge	-15℃~50℃(5°F~131°F)
	Charge	-10℃~50℃(14°F~131°F)
	Storage	-20℃~50℃(-4°F~131°F)
Float charging voltage(25℃)		13.50 to 13.80V Temperature compensation: -18mV/℃
Cyclic charging voltage(25℃)		14.10 to 14.40V Temperature compensation: -30mV/℃
Maximum charging current		24A
Terminal material		Copper
Maximum discharge current		1200A(5 sec.)
Designed floating life(20℃)		15 years

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

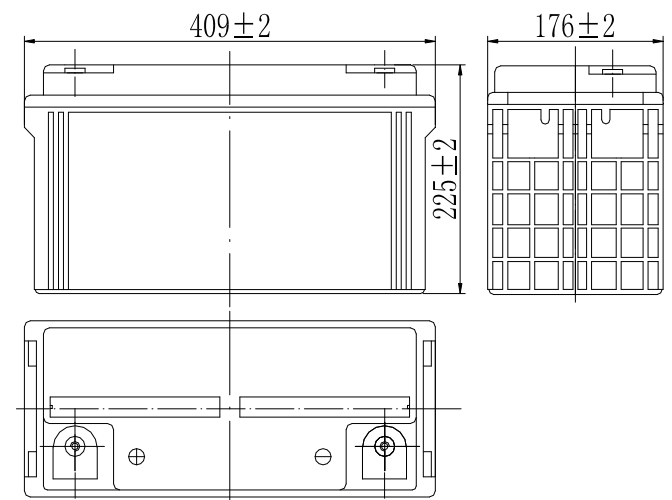
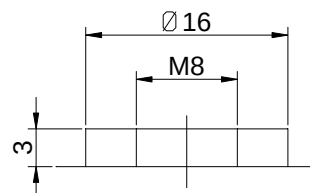
Constant Current Discharge Characteristics (A, 25℃)

F.V/TIME	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	48h	120h
9.60V	162	111.8	69.8	40.8	28.8	22.6	19.0	16.2	12.6	11.2	6.13	---	---
9.90V	158	109.6	68.8	40.6	28.6	22.5	18.9	16.1	12.5	11.2	6.12	---	---
10.2V	152	106.2	67.0	40.2	28.4	22.4	18.7	16.0	12.4	11.2	6.10	2.68	---
10.5V	147	103.7	65.7	39.6	28.2	22.2	18.6	15.8	12.4	11.1	6.00	2.66	1.21
10.8V	139	99.9	63.7	38.6	27.4	21.5	18.0	15.4	12.0	11.0	6.02	2.66	1.21

Constant Power Discharge Characteristics (Watt, 25℃)

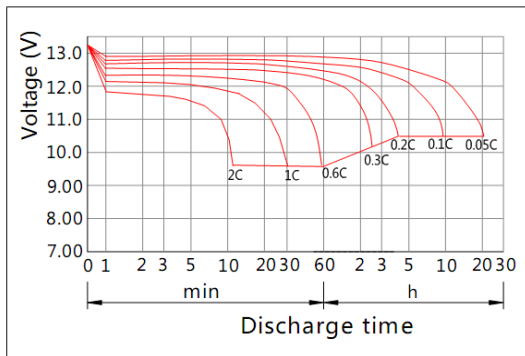
F.V/TIME	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	48h	120h
9.60V	1808	1275	805	475	340	268	225	192	151	135	74.0	---	---
9.90V	1765	1249	792	472	338	266	224	191	150	135	73.8	---	---
10.2V	1699	1211	772	468	336	264	223	189	149	134	73.6	32.1	---
10.5V	1642	1182	757	461	333	262	221	188	148	133	72.3	31.9	13.3
10.8V	1555	1139	734	449	323	255	214	183	143	132	72.6	31.9	13.2

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

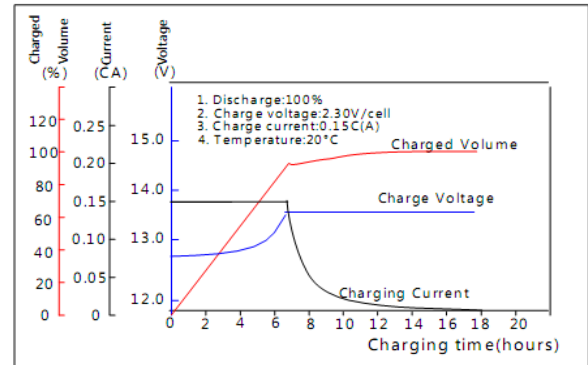
Dimensions**Terminal**

Terminal T11

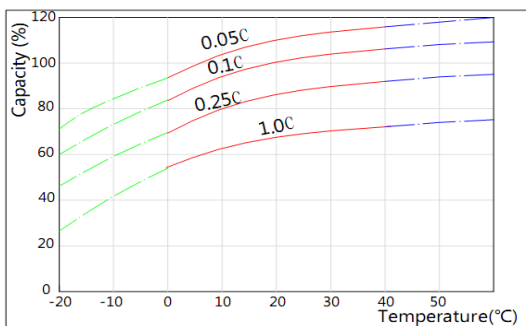
Discharge Characteristics(25°C)



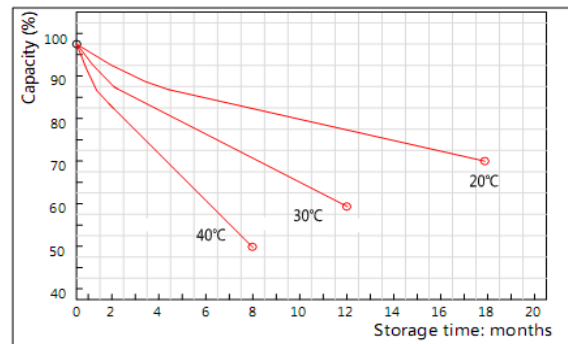
Charging Characteristics(25°C)



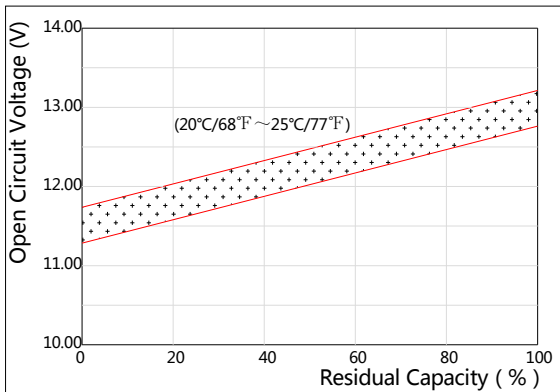
Effect of Temperature on Capacity



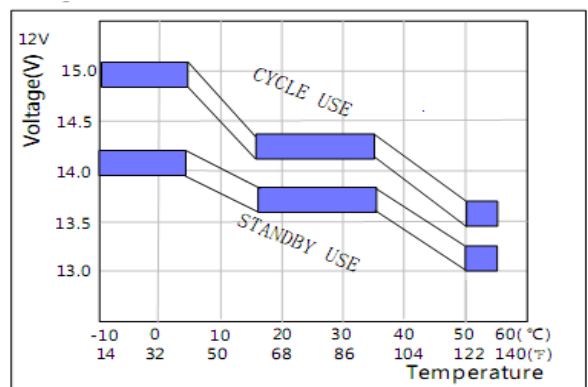
Self-discharge Characteristics



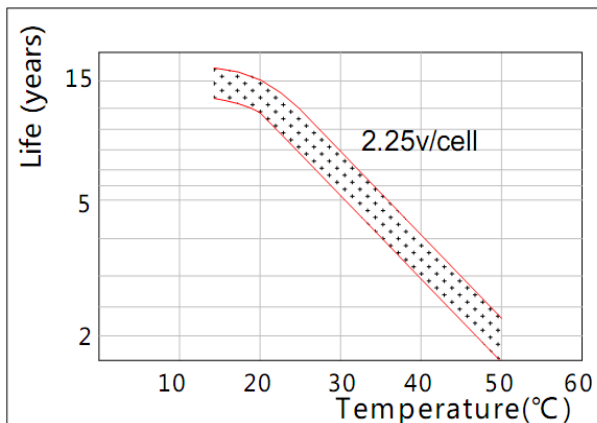
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)

