

**Specifications**

Nominal Voltage		12 V
Capacity (25°C)	20HR(10.5V)	180Ah
	5HR(10.2V)	140.5Ah
	1HR(9.6V)	105Ah
Dimension	Length	494 ± 2mm (19.45inch)
	Width	206 ± 2mm (8.11inch)
	Height	209 ± 2mm (8.23inch)
	Total Height	209 ± 2mm (8.23inch)
Approx. Weight		55kg (96.8lbs) ± 4%
Terminal type		T11
Internal resistance (Fully charged, 25°C)		Approx. 3.6m 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		36A
Terminal material		Copper
Maximum discharge current		1800A(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)**

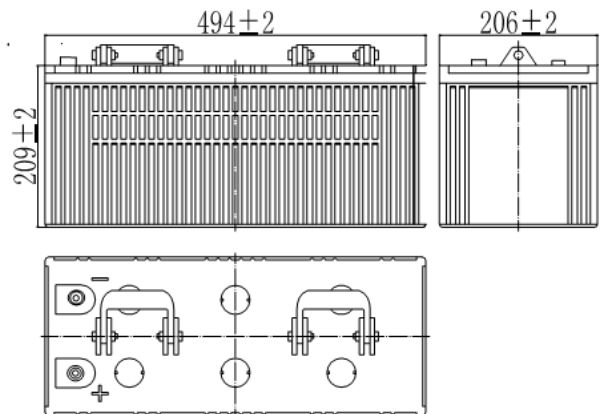
F.V/TIME	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	48h	120h
9.60V	244	168	105	61.2	43.2	34.0	28.4	24.2	19.0	16.8	9.20	---	---
9.90V	238	164	103	60.8	42.8	33.7	28.3	24.1	18.8	16.8	9.18	---	---
10.2V	228	160	101	60.4	42.6	33.5	28.1	23.9	18.7	16.7	9.16	4.02	---
10.5V	221	156	98.5	59.4	42.4	33.4	28.0	23.8	18.6	16.7	9.00	3.98	1.80
10.8V	209	150	95.5	57.8	41.0	32.3	27.1	23.0	18.0	16.6	9.04	3.98	1.80

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

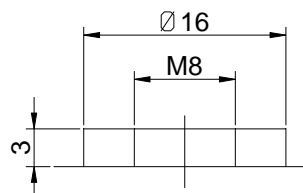
F.V/TIME	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	48h	120h
9.60V	2712	1913	1207	713	510	402	338	288	226	203	111	---	---
9.90V	2647	1874	1189	708	506	400	336	287	224	202	111	---	---
10.2V	2549	1817	1158	702	504	396	334	284	223	202	110	48.1	---
10.5V	2462	1772	1135	691	500	394	331	282	221	200	108	47.8	19.9
10.8V	2333	1708	1100	674	485	382	322	274	215	199	109	47.8	19.8

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

**Dimensions**

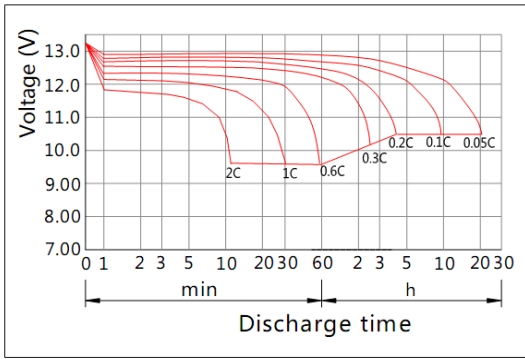


**Terminal**

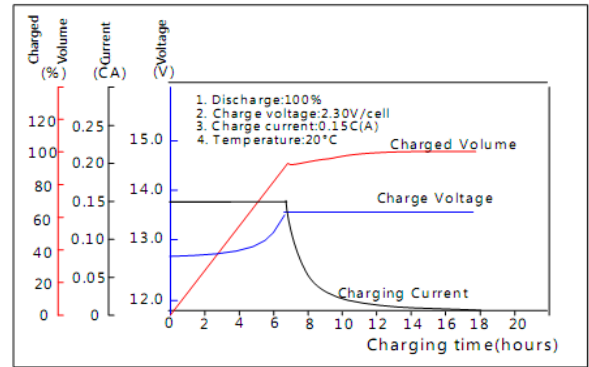


**Terminal T11**

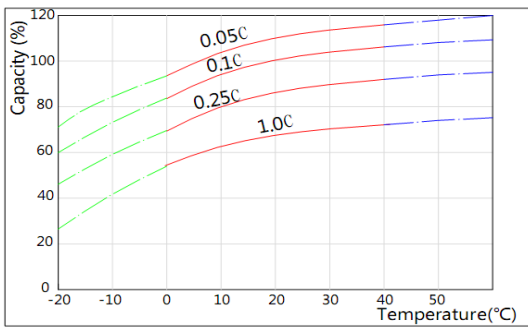
Discharge Characteristics(25°C)



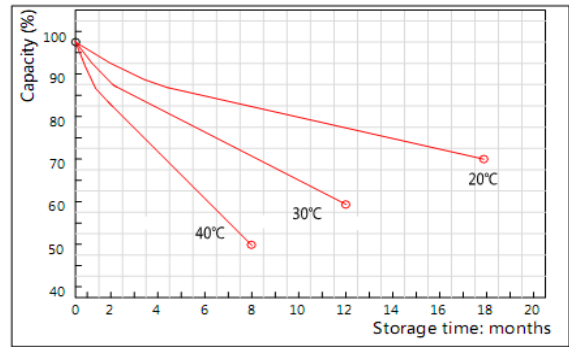
Charging Characteristics(25°C)



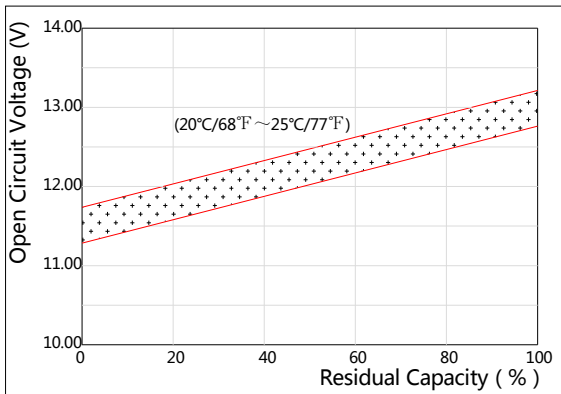
Effect of Temperature on Capacity



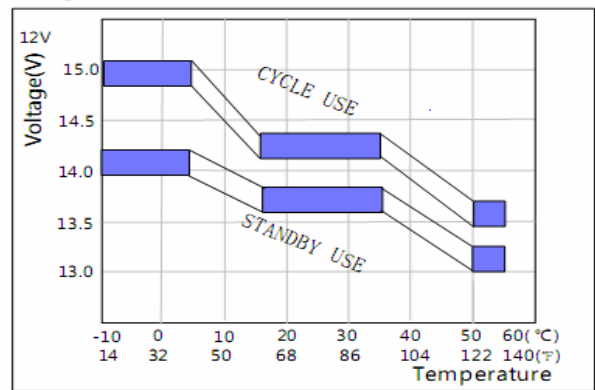
Self-discharge Characteristics



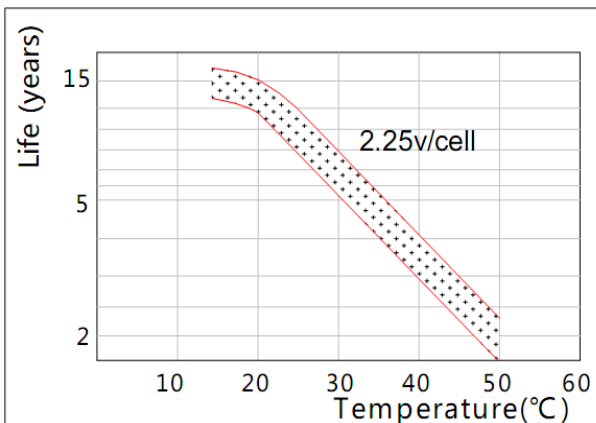
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)

