

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

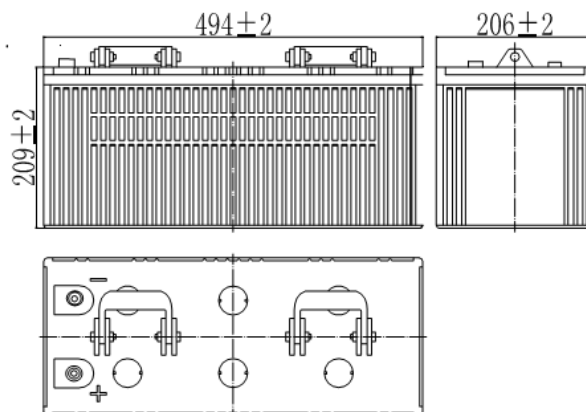
Constant Power Discharge Characteristics (Watt, 25°C)

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

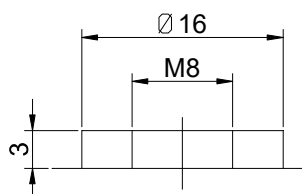
Note: The above characteristics data can be obtained within three charge/discharge cycles.



Dimensions



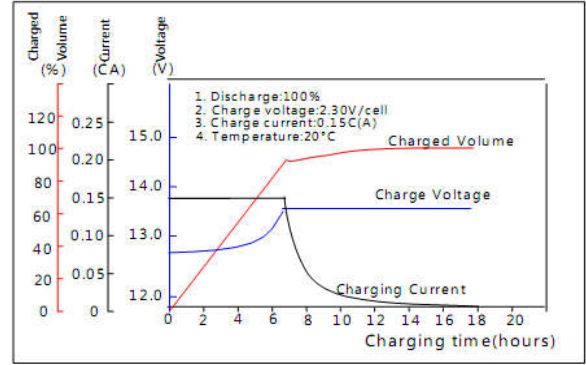
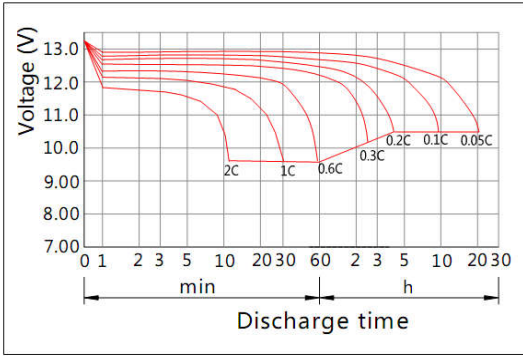
Terminal



Terminal T11

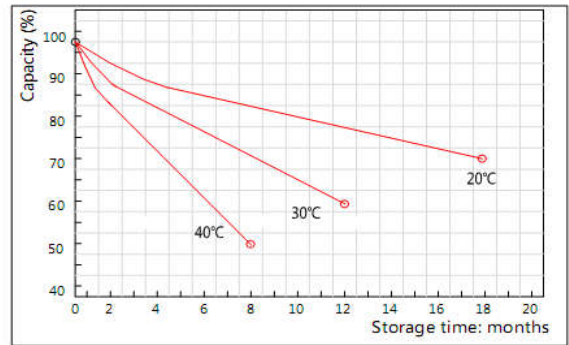
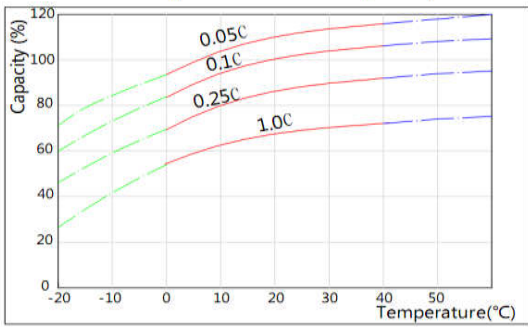
Discharge Characteristics(25°C)

Charging Characteristics(25°C)



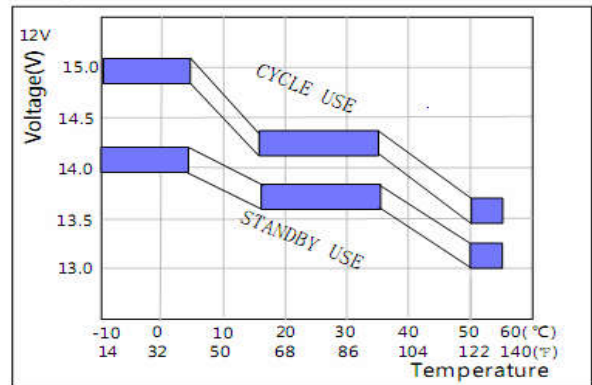
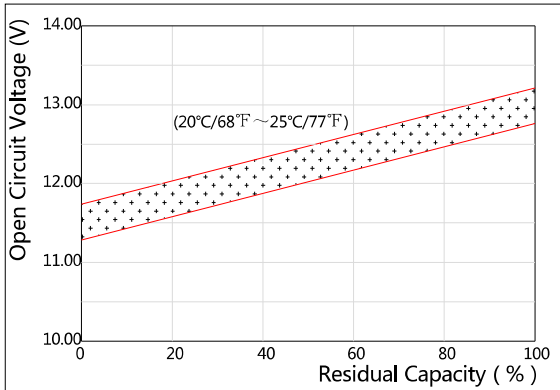
Effect of Temperature on Capacity

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)

