

**Specifications**

Nominal Voltage		12 V
Capacity (25°C)	20HR(10.5V)	160 Ah
	5HR(10.2V)	125Ah
	1HR(9.6V)	92.8 Ah
Dimension	Length	530 ± 2mm (20.87inch)
	Width	207 ± 2mm (8.15inch)
	Height	214 ± 2mm (8.43inch)
	Total Height	214 ± 2mm (8.43inch)
Approx. Weight		53 kg (117lbs) ± 4%
Terminal type		T11
Internal resistance (Fully charged, 25°C)		Approx. 3.2m 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 ~ 50°C (5°F ~ 131°F)
	Charge	-10°C ~ 50°C (14°F ~ 131°F)
	Storage	-20°C ~ 50°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		32A
Terminal material		Copper
Maximum discharge current		1600A(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	216	149	92.8	54.4	38.4	30.2	25.3	21.6	16.8	15.0	8.16	---	---
9.90V	211	146	92.0	54.1	38.1	30.1	25.1	21.4	16.6	15.0	8.16	---	---
10.2V	203	142	89.6	53.6	37.9	29.8	25.0	21.3	16.6	14.9	8.08	3.57	---
10.5V	197	138	88.0	52.8	37.6	29.6	24.8	21.1	16.5	14.8	8.00	3.54	1.47
10.8V	186	133	84.8	51.5	36.5	28.6	24.0	20.5	16.0	14.7	8.00	3.54	1.47

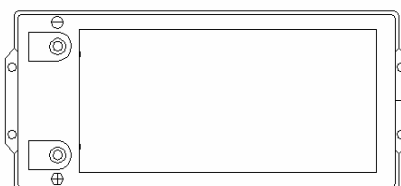
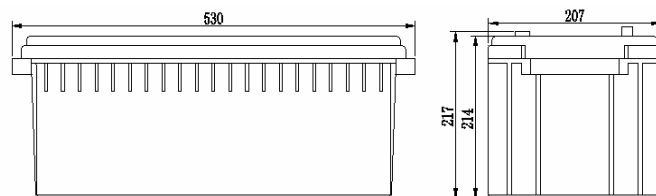
**Constant Power Discharge Characteristics (Watt, 25°C)**

F.V/TIME	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	48h	120h
9.60V	2411	1699	1072	634	453	357	301	256	200	180	98.4	---	---
9.90V	2352	1666	1056	629	451	355	299	254	200	179	98.4	---	---
10.2V	2266	1614	1030	624	448	352	296	253	198	179	98.4	42.8	---
10.5V	2189	1576	1010	614	445	350	294	251	197	178	96.8	42.6	17.8
10.8V	2074	1518	978	598	430	339	286	243	190	176	96.8	42.6	17.6

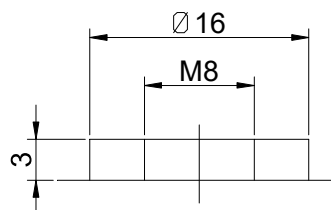
Note: The above characteristics data can be obtained within three charge/discharge cycles.



**Dimensions**



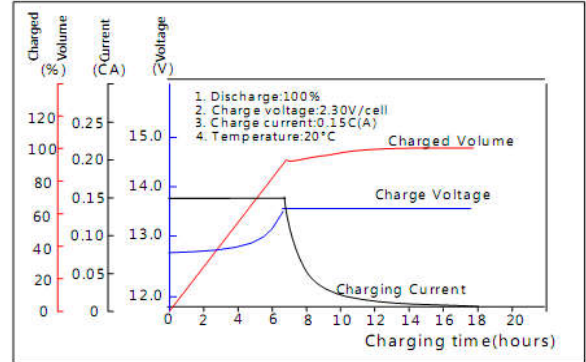
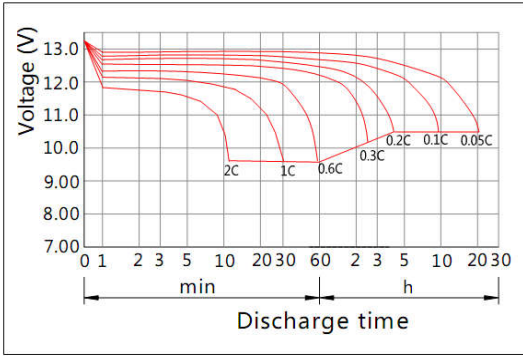
**Terminal**



**Terminal T11**

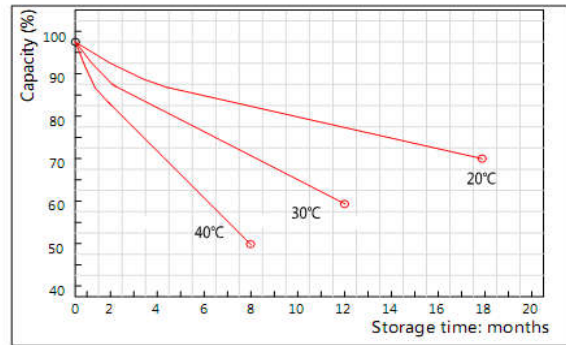
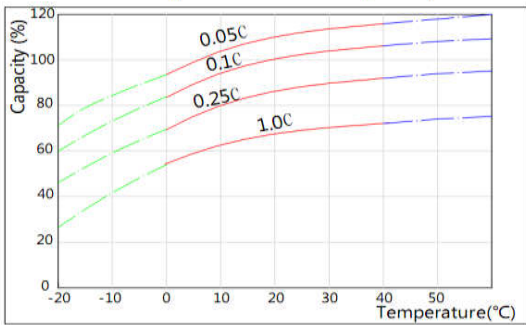
Discharge Characteristics(25°C)

Charging Characteristics(25°C)



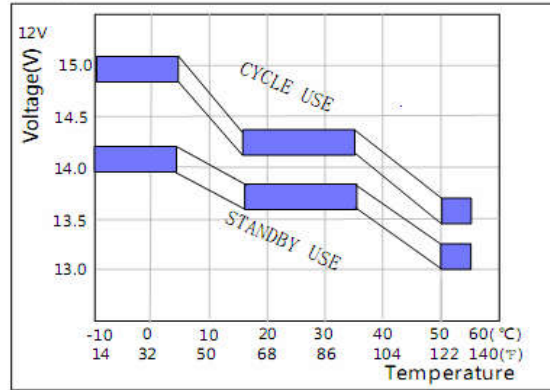
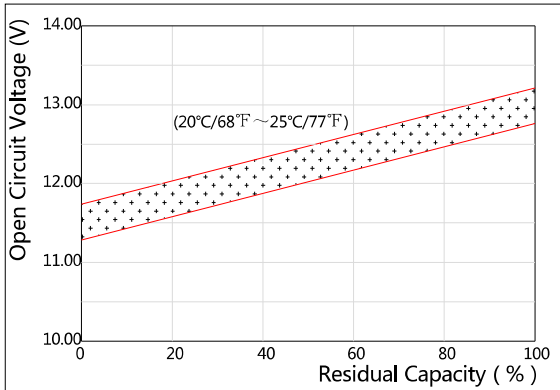
Effect of Temperature on Capacity

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)

