

**Specifications**

Nominal Voltage		12 V
Capacity (25°C)	20HR(10.5V)	140Ah
	5HR(10.2V)	109 Ah
	1HR(9.6V)	81.5 Ah
Dimension	Length	342 ± 2mm (13.46inch)
	Width	172 ± 2mm (6.77inch)
	Height	280 ± 2mm (11.02inch)
	Total Height	285 ± 2mm (11.22inch)
Approx. Weight		42.5kg (93.5lbs) ± 4%
Terminal type		T11
Internal resistance (Fully charged, 25°C)		Approx. 4.2m 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 ~ 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		28A
Terminal material		Copper
Maximum discharge current		1340A(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)**

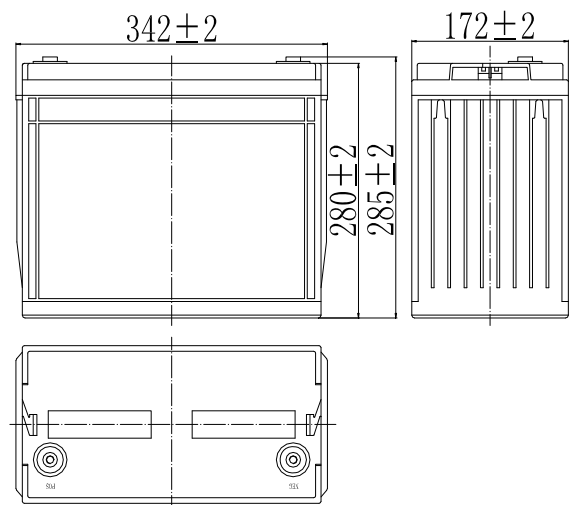
F.V/TIME	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	48h	120h
9.60V	189	131	81.5	47.6	33.6	26.4	22.1	18.9	14.7	13.1	7.16	---	---
9.90V	185	128	80.3	47.3	33.3	26.2	22.0	18.8	14.7	13.1	7.14	---	---
10.2V	177	124	78.2	46.9	33.1	26.0	21.8	18.6	14.6	13.0	7.12	3.12	---
10.5V	172	121	76.6	46.2	32.9	25.9	21.7	18.5	14.5	13.0	7.00	3.10	1.40
10.8V	162	117	74.3	45.0	31.9	25.1	21.1	17.9	14.0	12.9	7.03	3.10	1.40

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

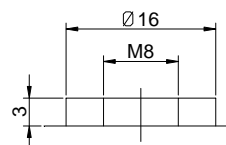
F.V/TIME	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	48h	120h
9.60V	2109	1488	939	554	397	313	263	224	175	158	86.2	---	---
9.90V	2059	1458	925	551	394	311	261	223	175	157	86.1	---	---
10.2V	1982	1413	901	546	392	308	259	221	174	157	85.9	37.4	---
10.5V	1915	1379	883	538	389	306	258	219	172	156	84.4	37.1	15.5
10.8V	1814	1328	856	525	377	297	250	213	167	155	84.7	37.1	15.4

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

**Dimensions**

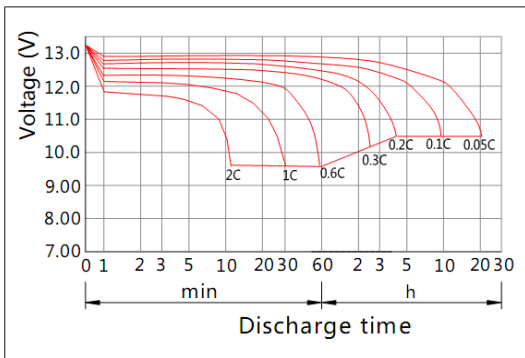


**Terminal**

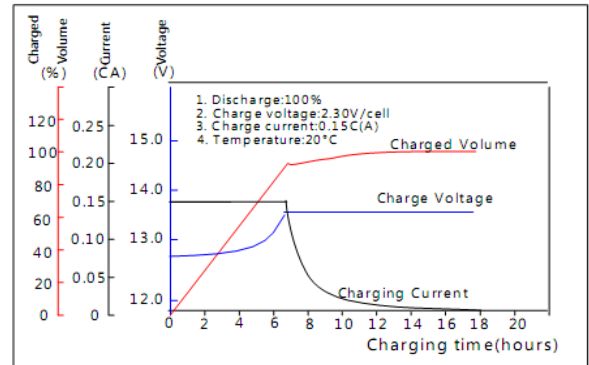


Terminal T11

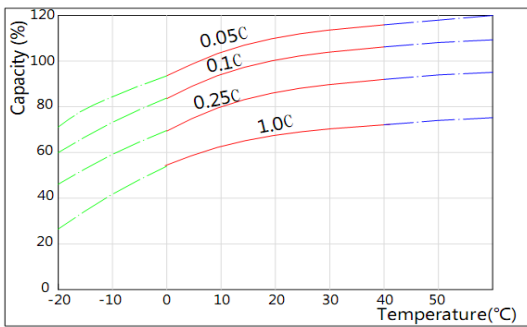
Discharge Characteristics(25°C)



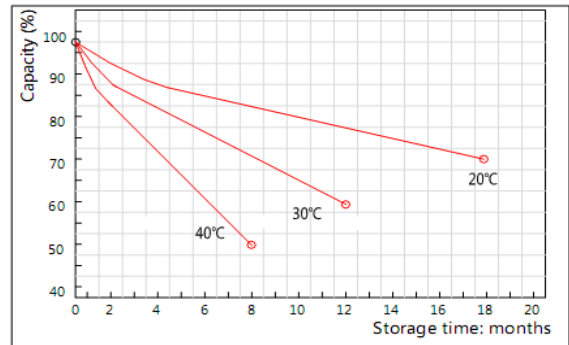
Charging Characteristics(25°C)



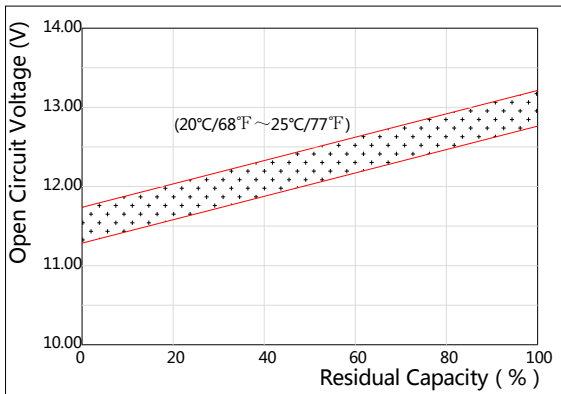
Effect of Temperature on Capacity



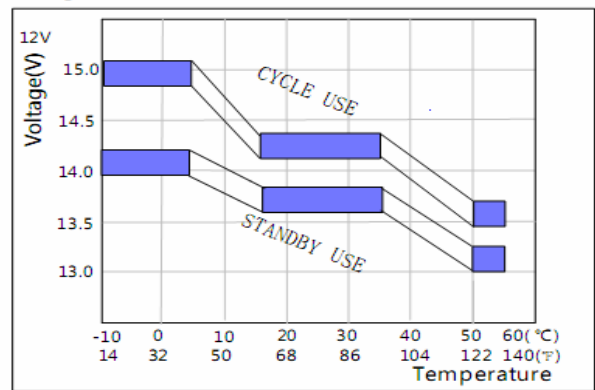
Self-discharge Characteristics



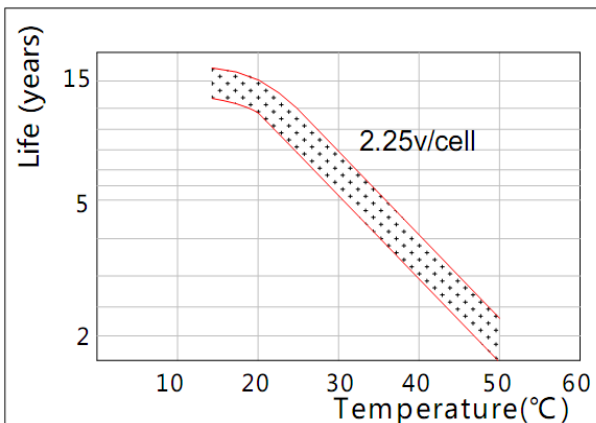
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)

