

# LFP12250L(12V250Ah)

## Specifications

Nominal Voltage		12 V
Capacity (25°C)	10HR(10.8V)	250 Ah
	5HR(10.5V)	187Ah
	1HR(9.60V)	155Ah
Dimension	Length	521 ± 2mm (20.51inch)
	Width	269 ± 2mm (10.59inch)
	Height	220 ± 2mm (8.66inch)
	Total Height	T5: 242 ± 2mm (9.53inch) T11: 223 ± 2mm (8.78inch)
Approx. Weight		78kg (172.0lbs) ± 3%
Terminal type		T5/T11
Internal resistance (Fully charged, 25°C)		Approx. 2.6mΩ
Capacity affected by temperature (10HR)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-discharge (25°C)	3 month	Remaining Capacity: 91%
	6 month	Remaining Capacity: 82%
	12 month	Remaining Capacity: 65%
Nominal operating temperature		25°C ± 3°C (77°F ± 5°F)
Operating temperature range	Discharge	-15°C ~ 50°C (5°F ~ 122°F)
	Charge	-10°C ~ 50°C (14°F ~ 122°F)
	Storage	-20°C ~ 50°C (-4°F ~ 122°F)
Float charging voltage(25°C)		13.50 to 13.80V Temperature compensation: -18mV/°C
Cyclic charging voltage(25°C)		14.50 to 14.90V Temperature compensation: -30mV/°C
Maximum charging current		75A
Terminal material		Copper
Maximum discharge current		1800A(5 sec.)
Designed floating life(20°C)		15 years

- ◆ Absorbent glass mat technology;
- ◆ Recognized by UL & CE;
- ◆ ABS container.

## Constant Current Discharge Characteristics (A, 25°C)

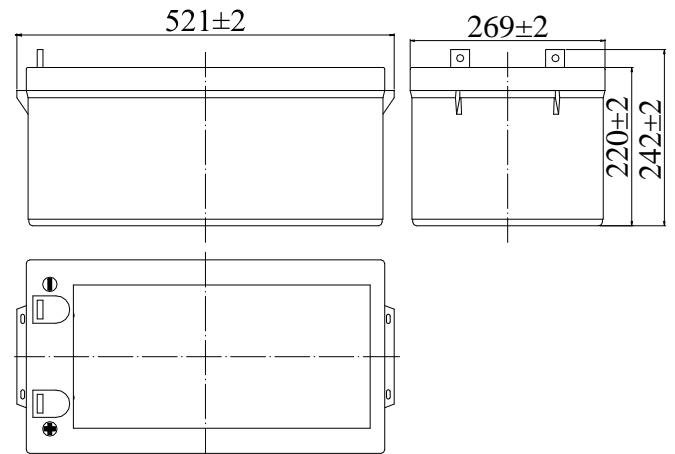
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h
9.60V	764	509	404	245	155	91.4	63.8	52.3	44.6	39.0	30.6	25.5	13.4
9.90V	741	494	395	240	153	90.8	63.4	52.0	44.4	38.8	30.4	25.4	13.3
10.2V	710	474	380	233	149	90.0	62.9	51.6	44.1	38.5	30.2	25.3	13.3
10.5V	680	453	367	227	146	88.7	62.5	51.3	43.8	38.3	30.0	25.2	13.2
10.8V	642	428	348	219	141	86.4	60.6	49.7	42.4	37.1	29.1	25.0	13.1

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

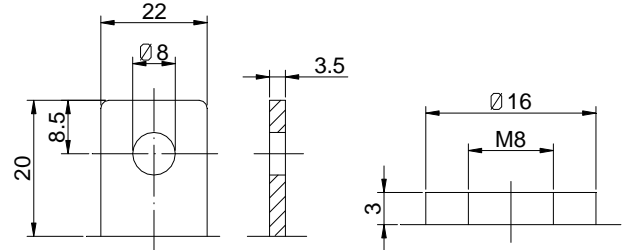
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h
9.60V	8021	5500	4439	2749	1767	1058	750	615	527	461	364	304	160
9.90V	7780	5335	4332	2694	1740	1052	745	611	524	458	361	303	160
10.2V	7459	5115	4172	2611	1696	1042	740	607	521	455	359	302	160
10.5V	7138	4895	4030	2548	1663	1027	735	603	517	452	356	301	159
10.8V	6737	4620	3817	2455	1612	1001	713	585	502	439	346	299	158

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

## Dimensions



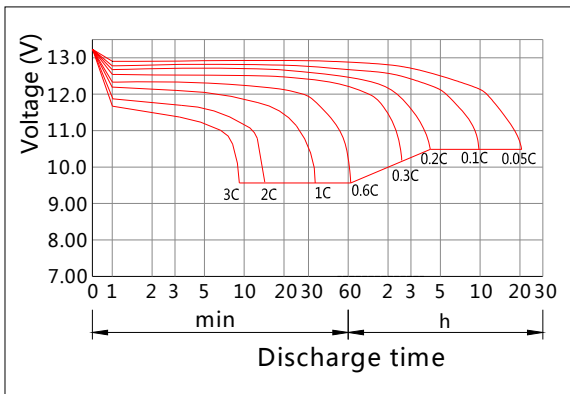
## Terminal



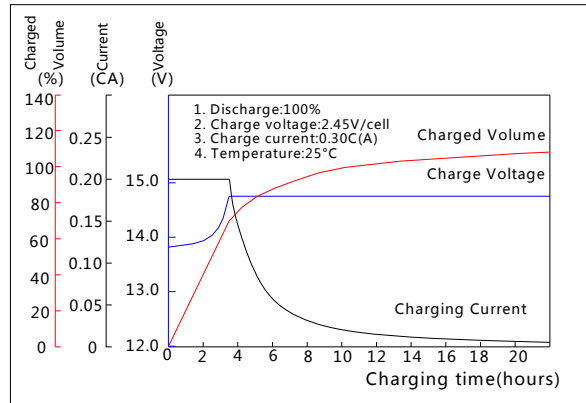
Terminal T5

Terminal T11

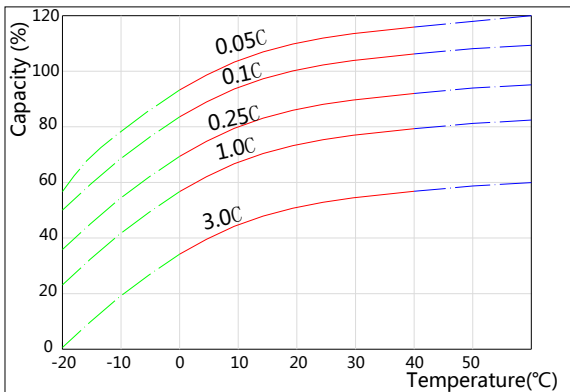
## Discharge Characteristics(25°C)



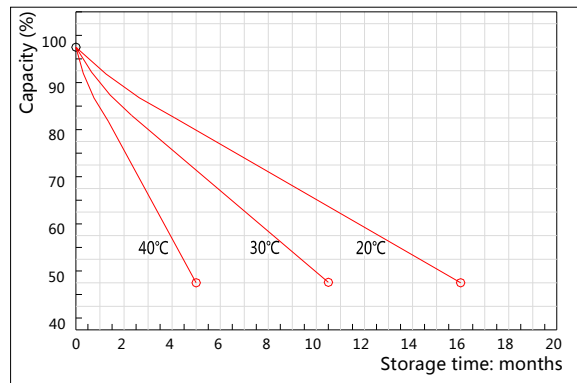
## Charging Characteristics(25°C)



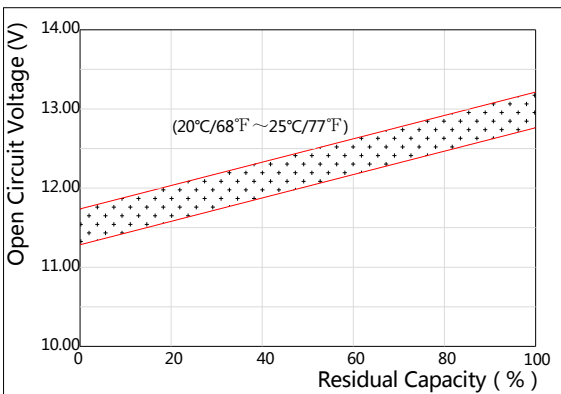
## Effect of Temperature on Capacity



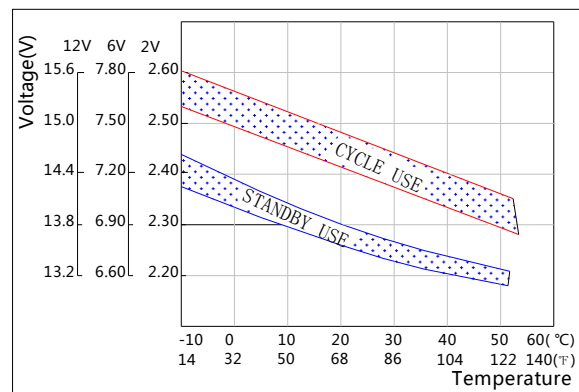
## Self-discharge Characteristics



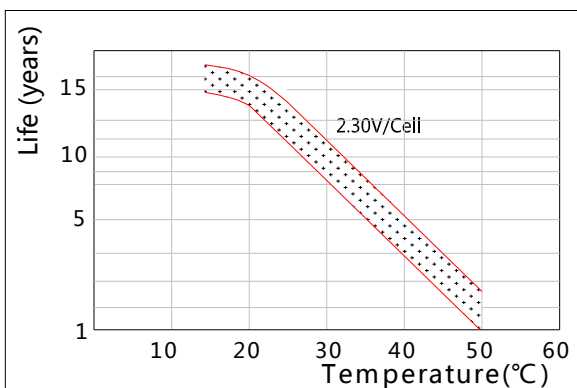
## The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



## The Relationship for Charging Voltage and Temperature



## Floating Life on Temperature



## Cycle Life on D.O.D.(25°C)

