

LFPG12100FT(12V100Ah)

Specifications

Nominal Voltage		12 V
Capacity (25°C)	20HR(10.5V)	100 Ah
	5HR(10.2V)	83Ah
	1HR(9.6V)	58.1Ah
Dimension	Length	506 ± 2mm (19.92inch)
	Width	110 ± 2mm (4.33inch)
	Height	224 ± 2mm (8.82inch)
	Total Height	239 ± 2mm (9.41inch)
Approx. Weight		31kg (68.2lbs) ± 4%
Terminal type		T9
Internal resistance (Fully charged, 25°C)		Approx. 5.4m 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		20A
Terminal material		Copper
Maximum discharge current		1000A(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)

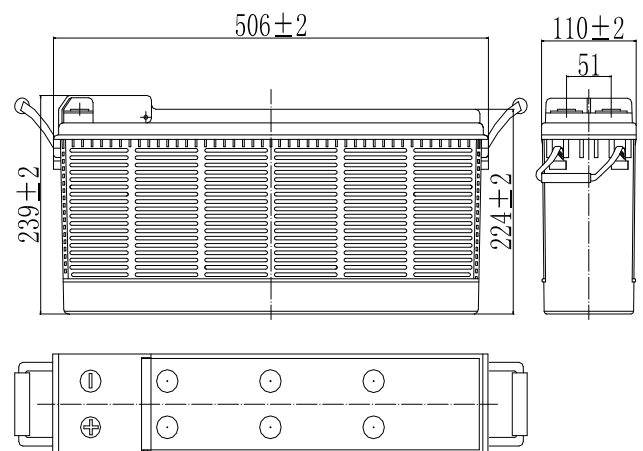
F.V/TIME	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	48h	120h
9.60V	150	91.8	58.1	34.4	24.0	19.7	16.9	14.8	11.6	9.65	5.06	---	---
9.90V	146	89.9	57.2	34.2	23.8	19.6	16.8	14.7	11.5	9.58	5.04	----	---
10.2V	141	87.4	55.7	33.9	23.7	19.4	16.6	14.6	11.4	9.58	5.03	2.23	---
10.5V	136	84.9	54.6	33.4	23.5	19.3	16.6	14.5	11.3	9.52	5.00	2.22	0.92
10.8V	129	81.8	52.9	32.5	22.8	18.7	16.1	14.1	11.0	9.46	4.97	2.22	0.92

Constant Power Discharge Characteristics (Watt, 25°C)

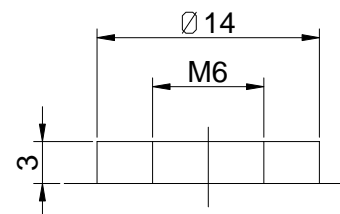
F.V/TIME	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	48h	120h
9.60V	1477	1051	663	394	282	222	188	160	125	112	61.6	---	---
9.90V	1441	1031	653	391	281	221	187	159	125	112	61.5	---	----
10.2V	1388	999	638	388	279	219	185	158	124	112	61.3	26.8	----
10.5V	1341	975	625	382	277	218	184	157	123	111	60.3	26.6	11.1
10.8V	1270	940	605	372	268	211	179	152	119	110	60.5	26.6	11.0

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

Dimensions



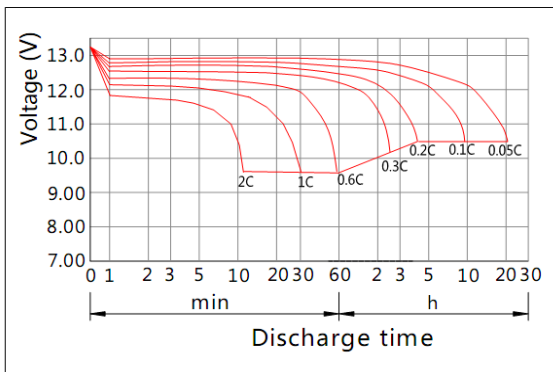
Terminal



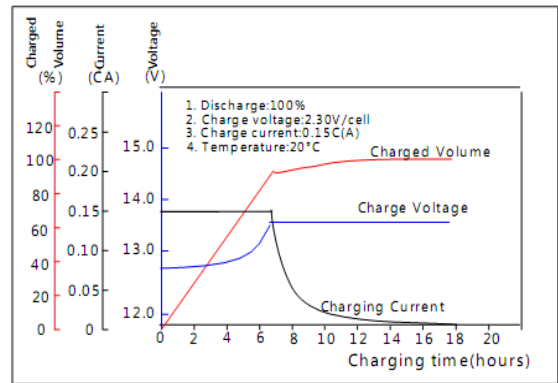
Terminal T9

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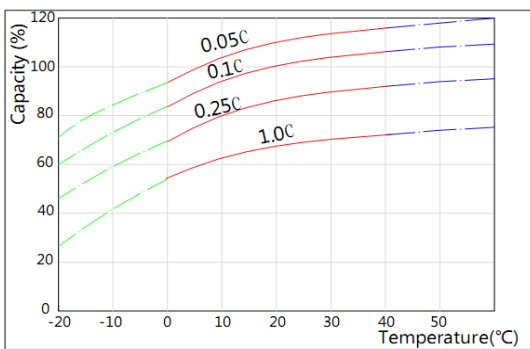
Discharge Characteristics(25°C)



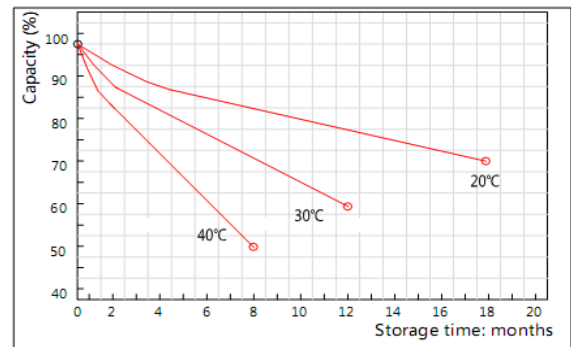
Charging Characteristics(25°C)



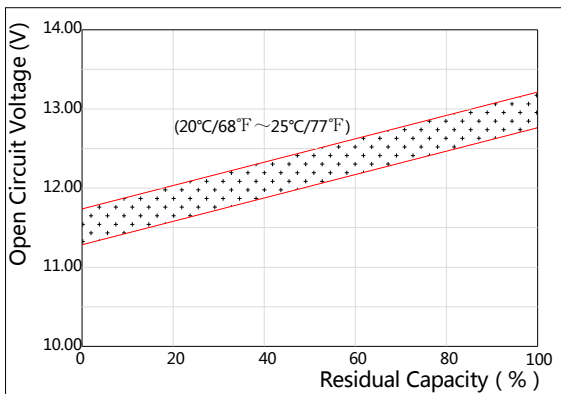
Effect of Temperature on Capacity



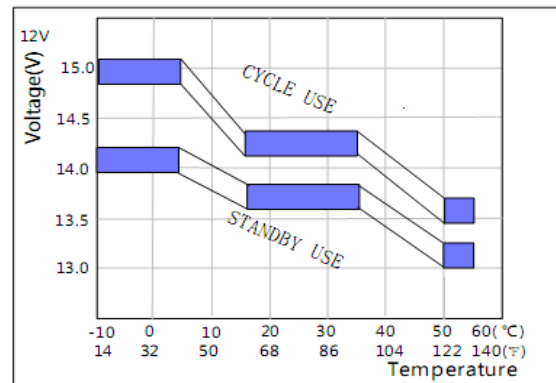
Self-discharge Characteristics



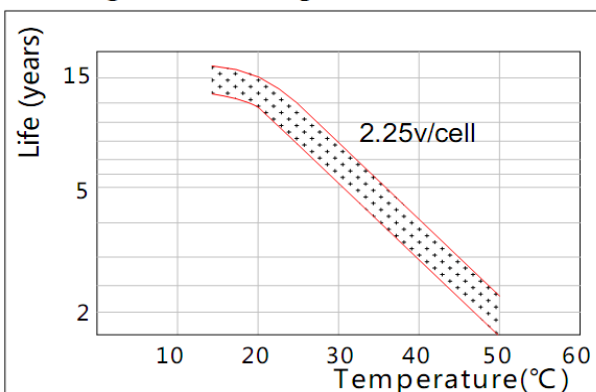
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)

