

LFPG12100 (12V100Ah)

Specifications

Nominal Voltage		12 V
Capacity (25°C)	20HR(10.5V)	100 Ah
	5HR(10.2V)	78Ah
	1HR(9.6V)	58.2Ah
Dimension	Length	330±2mm (12.99inch)
	Width	171±2mm (6.73inch)
	Height	214±2mm (8.43inch)
	Total Height	220±2mm (8.66inch)
Approx. Weight		32kg (70.4lbs) ±4%
Terminal type		T9
Internal resistance (Fully charged, 25°C)		Approx. 5m 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		800A(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)

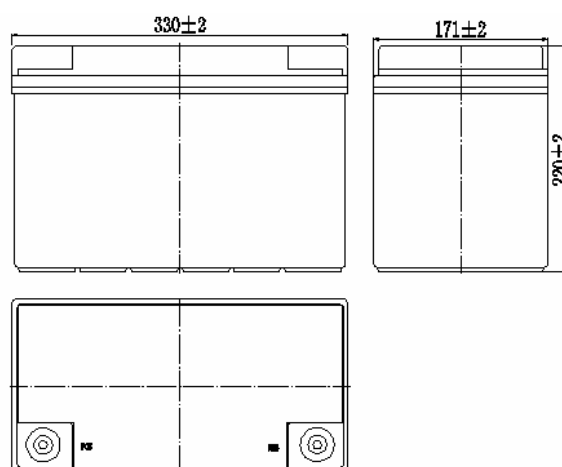
F.V/TIME	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	48h	120h
9.60V	135	93.2	58.2	34.0	24.0	18.9	15.8	13.5	10.5	9.37	5.11	---	---
9.90V	132	91.3	57.3	33.8	23.8	18.8	15.7	13.4	10.4	9.35	5.10	----	---
10.2V	127	88.5	55.9	33.5	23.7	18.6	15.6	13.3	10.4	9.32	5.06	2.23	---
10.5V	123	86.4	54.8	33.0	23.5	18.5	15.5	13.2	10.3	9.26	5.00	2.22	0.92
10.8V	116	83.2	53.1	32.2	22.8	17.9	15.0	12.8	9.99	9.20	5.00	2.22	0.92

Constant Power Discharge Characteristics (Watt, 25°C)

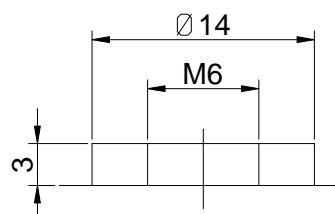
F.V/TIME	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	48h	120h
9.60V	1507	1062	670	396	283	223	188	160	125	112	61.6	---	---
9.90V	1470	1041	660	393	282	222	187	159	125	112	61.5	---	----
10.2V	1416	1009	644	390	280	220	185	158	124	112	61.3	26.8	----
10.5V	1368	985	631	384	278	219	184	157	123	111	60.3	26.6	11.1
10.8V	1296	949	611	374	269	212	179	152	119	110	60.5	26.6	11.0

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

Dimensions



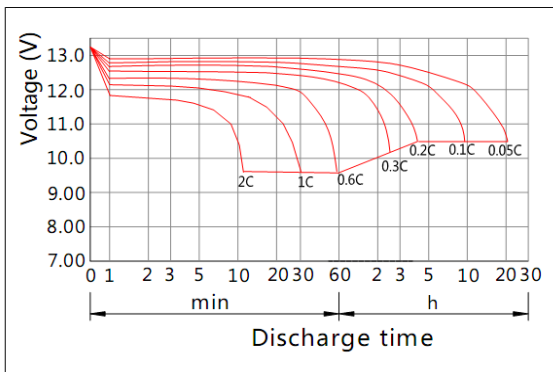
Terminal



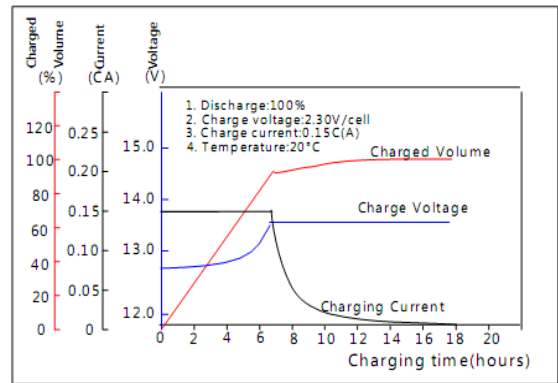
Terminal T9

LFPG12100 (12V100Ah)

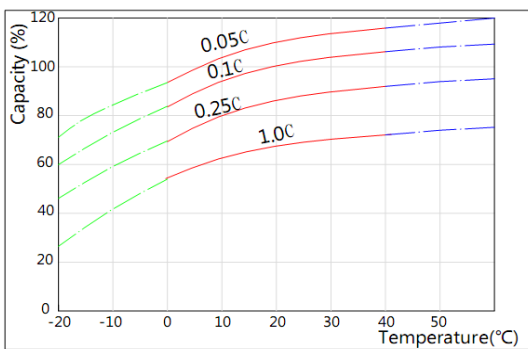
Discharge Characteristics(25°C)



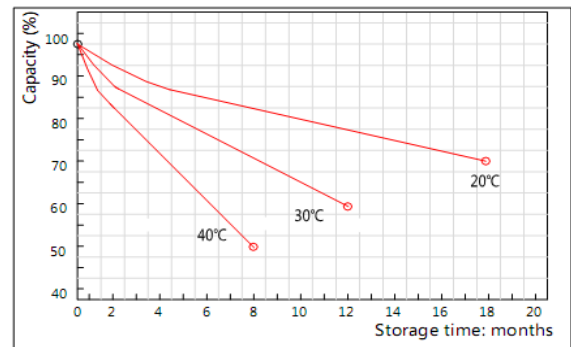
Charging Characteristics(25°C)



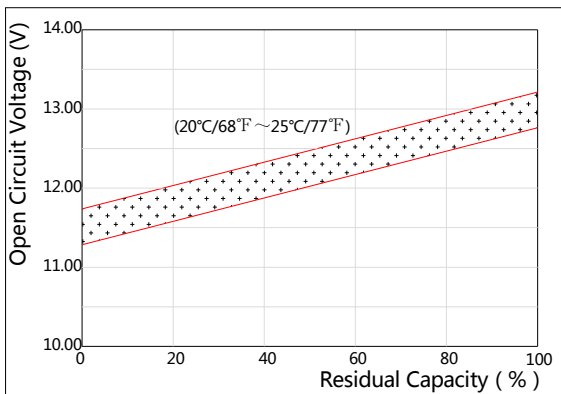
Effect of Temperature on Capacity



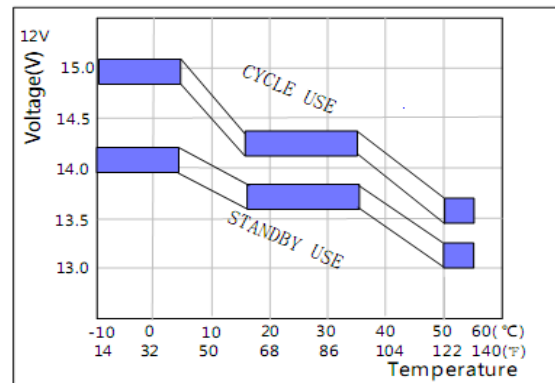
Self-discharge Characteristics



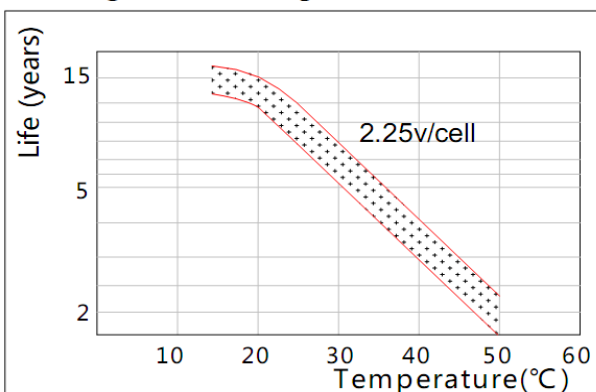
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)

