

# LFPG12180FT(12V180Ah)

◆ ABS container.

## Specifications

Nominal Voltage		12 V
Capacity (25°C)	20HR(10.5V)	180 Ah
	5HR(10.2V)	Ah
	1HR(9.6V)	Ah
Dimension	Length	546 ± 3mm (21.50inch)
	Width	125 ± 2mm (4.92inch)
	Height	317 ± 2mm (12.48inch)
	Total Height	323 ± 2mm (12.72inch)
Approx. Weight		57kg (125.4lbs) ± 4%
Terminal type		T11
Internal resistance (Fully charged, 25°C)		Approx.3m 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		36A
Terminal material		Copper
Maximum discharge current		1800A(5 sec.)
Designed floating life(20°C)		15 years

- ◆ Gelled electrolyte technology;
- ◆ PVC separator;
- ◆ Recognized by UL & CE;

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

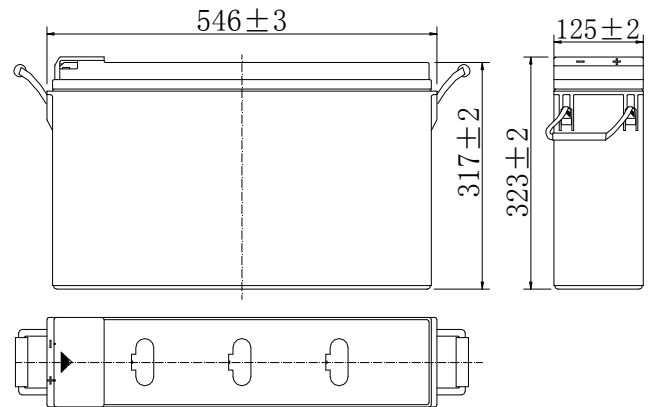
F.V/TIME	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	48h	120h
9.60V	270	166	105	61.9	43.2	35.5	30.5	26.6	20.9	17.4	9.11	---	---
9.90V	263	162	103	61.6	42.8	35.3	30.2	26.5	20.8	17.3	9.07	----	---
10.2V	254	157	100	61.1	42.7	34.9	29.9	26.3	20.5	17.3	9.06	4.02	---
10.5V	245	152	98.3	60.1	42.4	34.8	29.9	26.2	20.4	17.2	9.00	4.00	1.66
10.8V	233	148	95.3	58.6	41.0	33.7	29.0	25.4	19.8	17.0	8.95	4.00	1.66

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

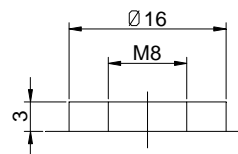
F.V/TIME	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	48h	120h
9.60V	2659	1892	1194	709	508	400	338	288	226	202	111	---	---
9.90V	2594	1856	1176	704	506	398	337	287	226	202	111	----	---
10.2V	2498	1799	1148	698	503	395	334	284	223	202	110	48.2	---
10.5V	2414	1756	1126	688	499	392	331	283	222	200	109	47.9	20.0
10.8V	2286	1692	1090	670	482	380	323	274	215	198	109	47.9	19.8

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

## Dimensions



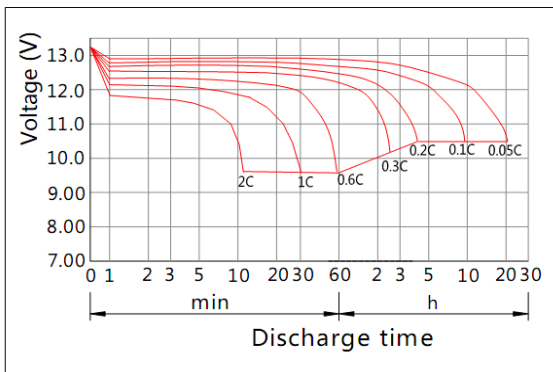
## Terminal



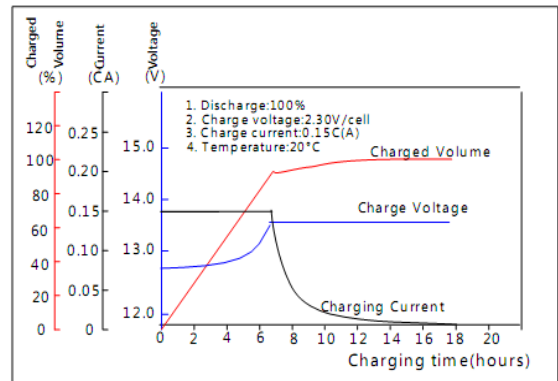
Terminal T11

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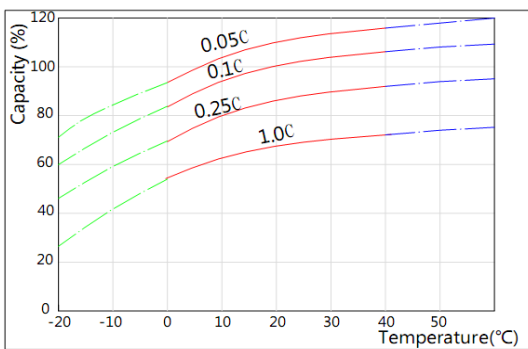
## Discharge Characteristics(25°C)



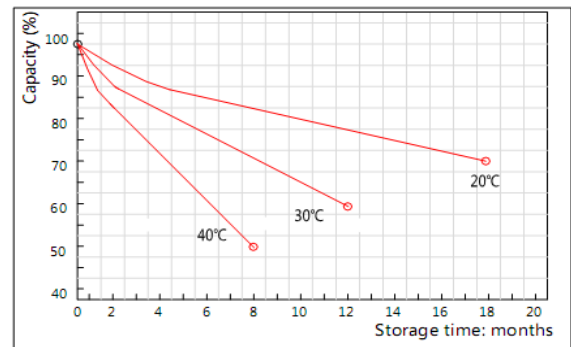
## Charging Characteristics(25°C)



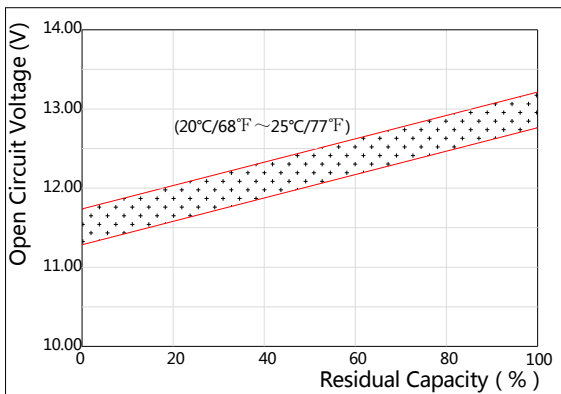
## Effect of Temperature on Capacity



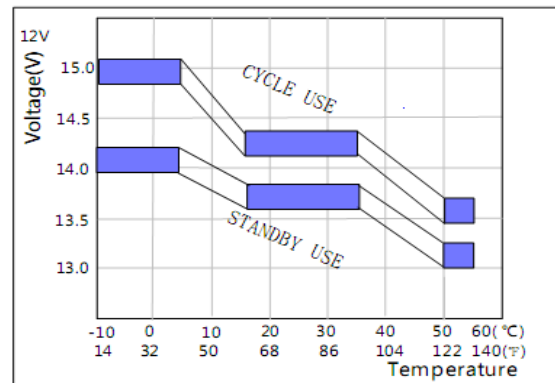
## Self-discharge Characteristics



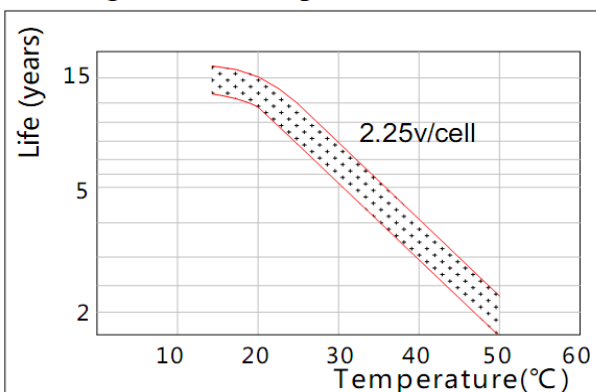
## The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



## The Relationship for Charging Voltage and Temperature



## Floating Life on Temperature



## Cycle Life on D.O.D(25°C)

