

LFPV12180 (12V180Ah)

Specifications

Nominal Voltage		12 V
Capacity (25°C)	120HR(11.1V)	216Ah
	10HR(10.8V)	180Ah
	1HR(9.6V)	100Ah
	Length	522±2mm (20.5inch)
	Width	238±2mm (9.37inch)
	Height	218±2mm (8.58inch)
	Total Height	221±2mm (8.70inch)
Approx. Weight		Approx 63.0kg (139 lbs)
Terminal type		T11
Internal resistance (Fully charged, 25°C)		Approx. 4.0m 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 ~ 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 13.62V Temperature compensation: -18mV/°C
Cyclic charging voltage(25°C)		14.10 to 14.40V Temperature compensation: -24mV/°C
Maximum charging current		36A
Terminal material		Copper
Maximum discharge current		900A (5 sec.)
Designed floating life(20°C)		20 years

- ◆ Gelled electrolyte technology;
- ◆ Tubular Positive Plate;
- ◆ ABS container.
- ◆ DIN 40742 Standard

Constant Current Discharge Characteristics (A, 25°C)

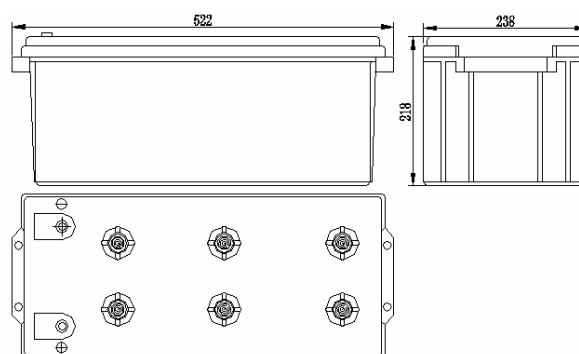
F.V/TIME	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h	48h	72h	120h
1.65V	154	99.1	64.6	46.0	39.8	34.1	29.2	22.0	18.3	9.63	8.79	---	---	---
1.70V	150	96.6	64.0	45.7	39.4	33.9	29.0	21.8	18.2	9.61	8.73	---	---	---
1.75V	146	94.7	63.1	45.1	38.8	33.7	28.8	21.4	18.1	9.55	8.68	4.32	---	---
1.80V	140	91.7	61.4	44.5	38.5	32.8	27.9	21.2	18.0	9.47	8.62	4.32	---	---
1.85V	131	85.3	57.0	42.4	35.8	30.5	26.0	19.9	16.9	8.91	8.17	4.21	2.90	1.80

Constant Power Discharge Characteristics (Watt, 25°C)

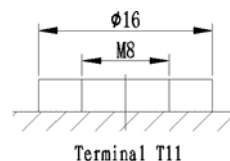
F.V/TIME	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h	48h	72h	120h
1.65V	286	184	123	88.4	76.8	66.5	57.2	43.2	36.2	19.0	17.4	---	---	---
1.70V	279	181	123	88.1	76.5	66.5	57.1	43.0	36.1	18.9	17.4	---	---	---
1.75V	274	179	122	87.9	75.9	65.8	57.0	42.5	35.9	18.9	17.2	8.68	---	---
1.80V	263	174	119	87.3	75.6	64.9	55.3	42.2	35.8	18.7	17.2	8.67	---	---
1.85V	248	164	111	83.6	70.7	60.6	51.7	39.7	33.8	17.8	16.3	8.46	5.91	3.71

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

Dimensions

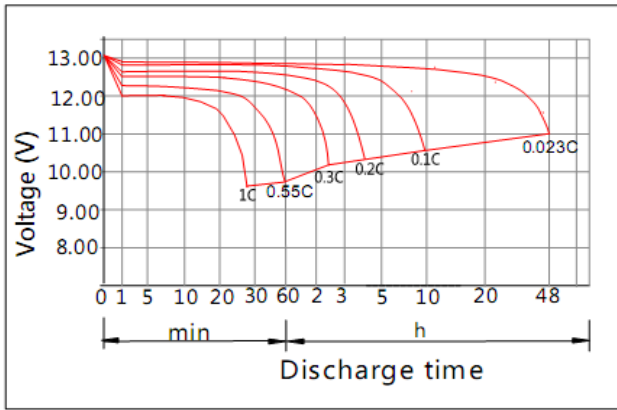


Terminal

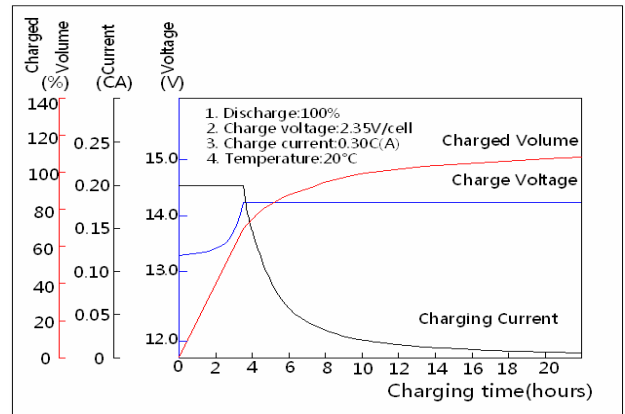


LFPV12180 (12V180Ah)

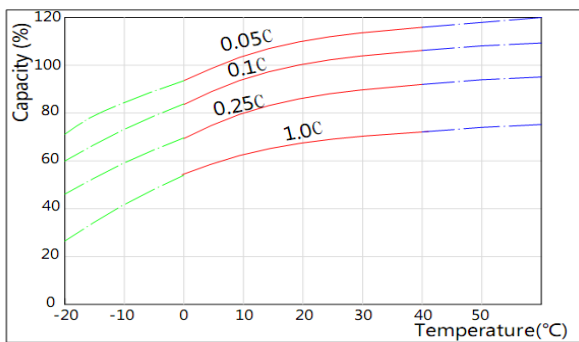
Discharge Characteristics(25°C)



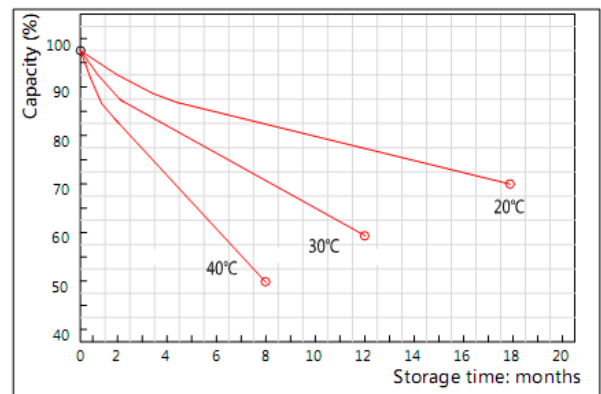
Charging Characteristics(25°C)



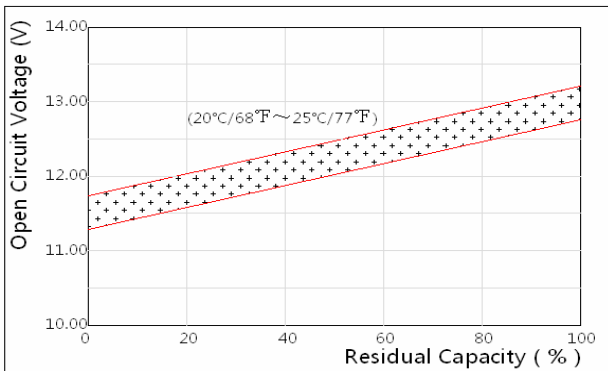
Effect of Temperature on Capacity



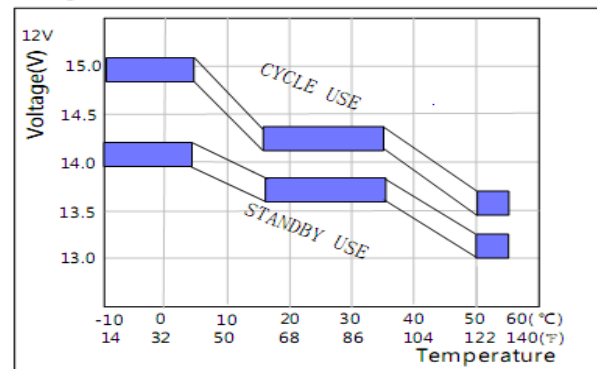
Self-discharge Characteristics



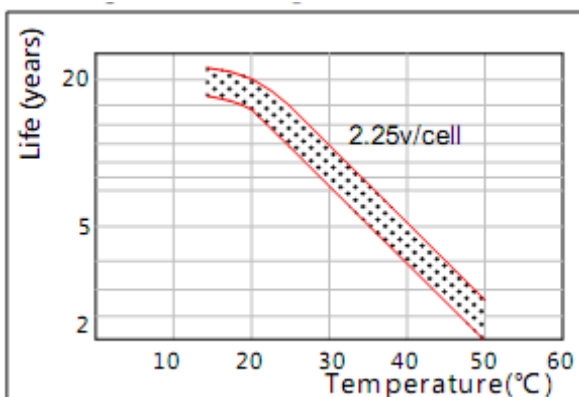
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)

