

# LFPV12120 (12V120Ah)

## Specifications

Nominal Voltage		12 V
Capacity (25°C)	120HR(11.1V)	144Ah
	10HR(10.8V)	120Ah
	1HR(9.6V)	106Ah
Dimension	Length	485±2mm (19.1inch)
	Width	172±2mm (6.77inch)
	Height	240±2mm (9.44inch)
	Total Height	240±2mm (9.44inch)
Approx. Weight		Approx. 43.5kg (95.7lbs)
Terminal type		T11
Internal resistance (Fully charged, 25°C)		Approx. 5.8mΩ
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		24A
Terminal material		Copper
Maximum discharge current		600A (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)

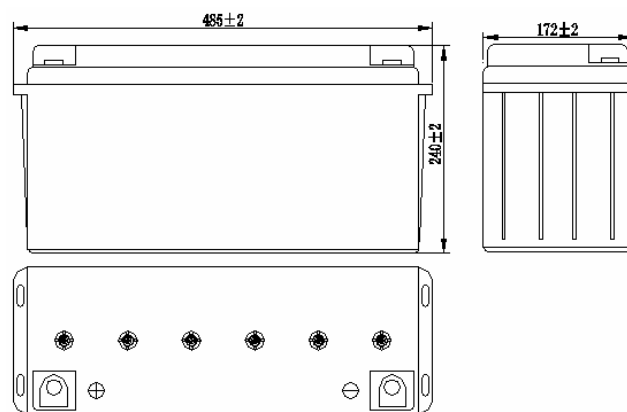
F.V/TIME	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h	48h	72h	120h
1.65V	103	66.1	43.1	30.7	26.5	22.7	19.5	14.7	12.2	6.42	5.86	---	---	---
1.70V	99.7	64.4	42.7	30.4	26.3	22.6	19.3	14.5	12.2	6.40	5.82	---	---	---
1.75V	97.1	63.2	42.1	30.1	25.9	22.5	19.2	14.3	12.1	6.37	5.79	2.88	---	---
1.80V	93.6	61.1	40.9	29.7	25.6	21.9	18.6	14.1	12.0	6.32	5.75	2.85	---	---
1.85V	87.0	56.8	38.0	28.3	23.9	20.3	17.3	13.3	11.3	5.94	5.44	2.80	1.93	1.20

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

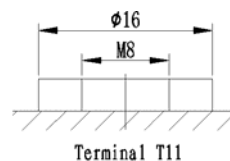
F.V/TIME	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h	48h	72h	120h
1.65V	191	123	82.3	58.9	51.2	44.3	38.1	28.8	24.2	12.7	11.6	---	---	---
1.70V	186	120	82.0	58.8	51.0	44.3	38.1	28.7	24.1	12.7	11.6	---	---	---
1.75V	182	119	81.2	58.6	50.6	44.0	38.0	28.4	23.9	12.6	11.5	5.77	---	---
1.80V	175	116	79.4	58.2	50.4	43.3	36.9	28.2	23.8	12.5	11.4	5.73	---	---
1.85V	166	109	74.3	55.7	47.2	40.4	34.5	26.4	22.5	11.9	10.9	5.64	3.94	2.48

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

## Dimensions

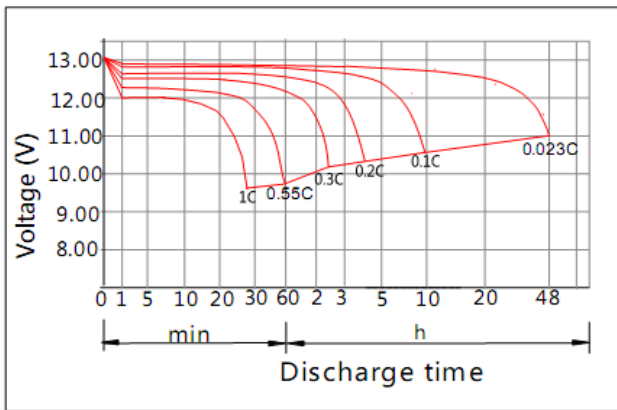


## Terminal

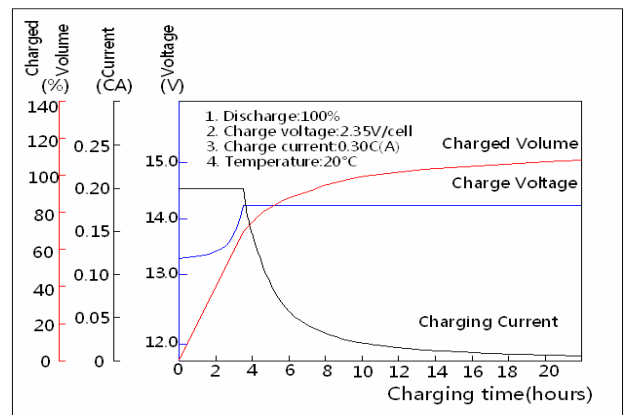


# LFPV12120 (12V120Ah)

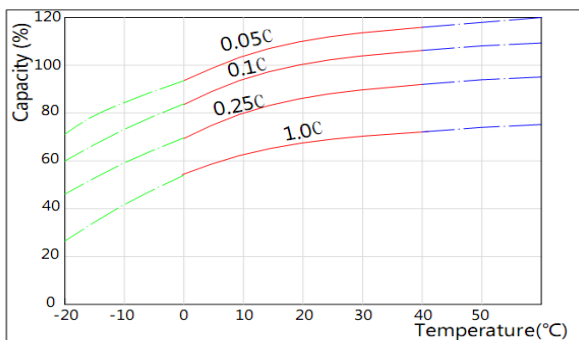
## Discharge Characteristics(25°C)



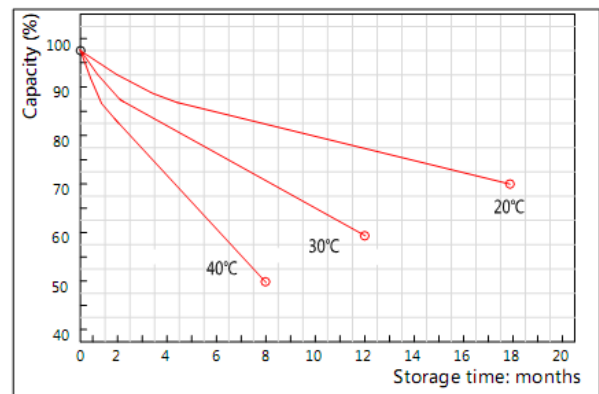
## Charging Characteristics(25°C)



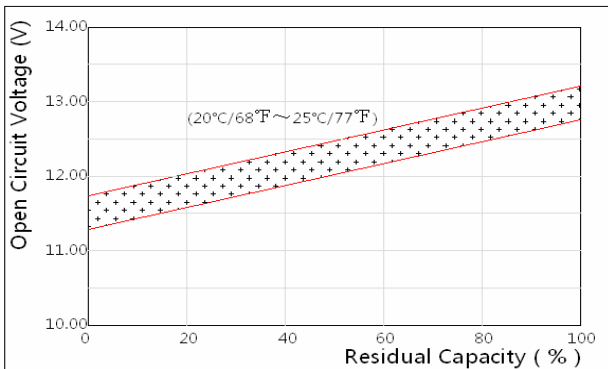
## Effect of Temperature on Capacity



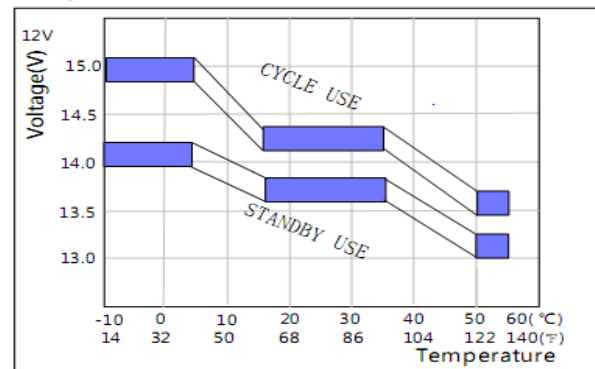
## Self-discharge Characteristics



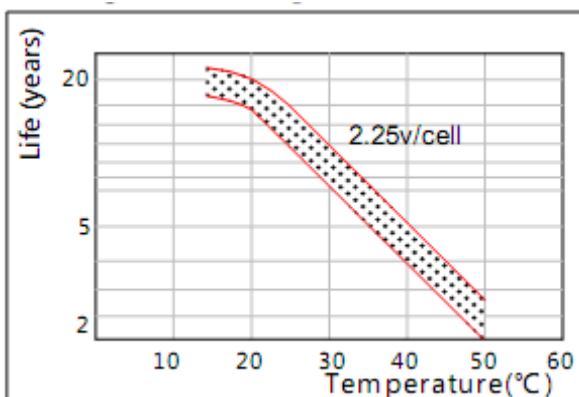
## The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



## The Relationship for Charging Voltage and Temperature



## Floating Life on Temperature



## Cycle Life on D.O.D(25°C)

