

# LFPV12100 (12V100Ah)

## Specifications

Nominal Voltage		12 V
Capacity (25°C)	120HR(11.1V)	120Ah
	10HR(10.8V)	100Ah
	1HR(9.6V)	56Ah
Dimension	Length	409±2mm (16.1inch)
	Width	176±2mm (6.93inch)
	Height	225±2mm (8.86inch)
	Total Height	T11: 225±2mm (8.86inch)
Approx. Weight		Approx.34.5kg (75.9lbs)
Terminal type		T11
Internal resistance (Fully charged, 25°C)		Approx. 6.3m 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 ~ 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		20A
Terminal material		Copper
Maximum discharge current		625A (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)

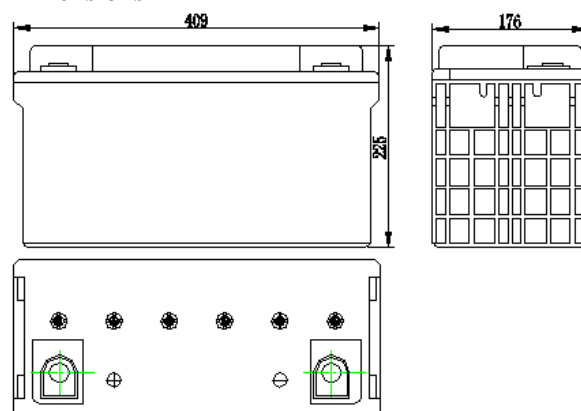
F.V/TIME	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h	48h	72h	120h
1.65V	85.6	55.1	35.9	25.6	22.1	18.9	16.2	12.2	10.2	5.35	4.88	---	---	---
1.70V	83.1	53.7	35.6	25.4	21.9	18.8	16.1	12.1	10.1	5.34	4.85	---	---	---
1.75V	80.9	52.6	35.1	25.1	21.6	18.7	16.0	11.9	10.1	5.31	4.82	2.40	---	---
1.80V	78.0	50.9	34.1	24.7	21.4	18.2	15.5	11.8	10.0	5.26	4.79	2.40	---	---
1.85V	72.5	47.4	31.7	23.6	19.9	16.9	14.4	11.1	9.40	4.95	4.54	2.34	1.61	1.00

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

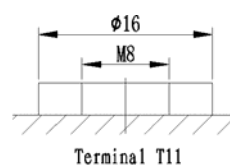
F.V/TIME	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h	48h	72h	120h
1.65V	159	102	68.6	49.1	42.7	36.9	31.8	24.0	20.0	10.6	9.66	---	---	---
1.70V	155	100	68.3	49.0	42.5	36.9	31.7	23.9	20.1	10.6	9.64	---	---	---
1.75V	152	99.4	67.7	48.9	42.2	36.5	31.7	23.6	20.0	10.6	9.60	4.80	---	---
1.80V	146	96.8	66.2	48.5	42.0	36.1	30.7	23.5	19.9	10.5	9.56	4.82	---	---
1.85V	138	91.1	61.9	46.5	39.3	33.7	28.7	22.0	18.8	9.89	9.08	4.70	3.29	2.06

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

## Dimensions

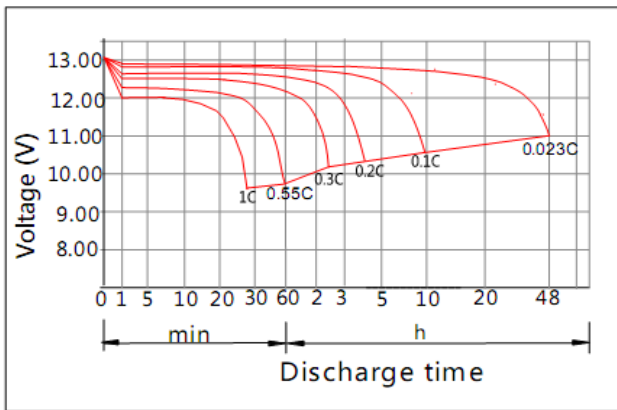


## Terminal

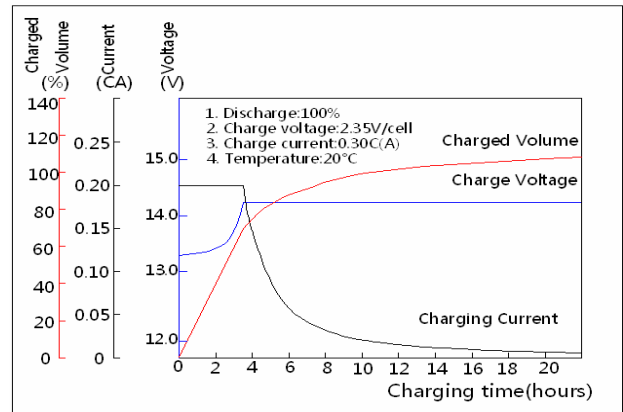


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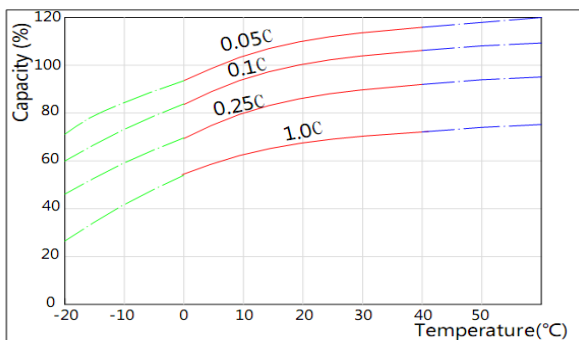
## Discharge Characteristics(25°C)



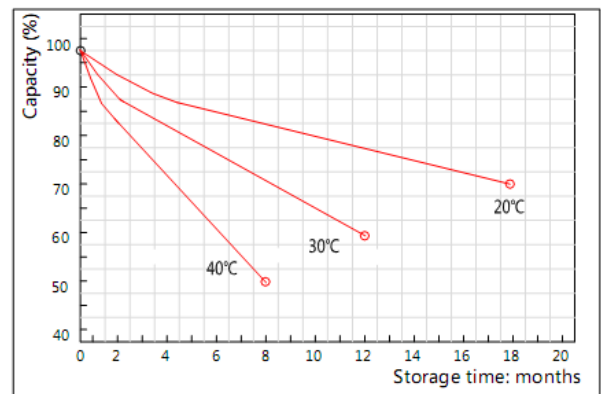
## Charging Characteristics(25°C)



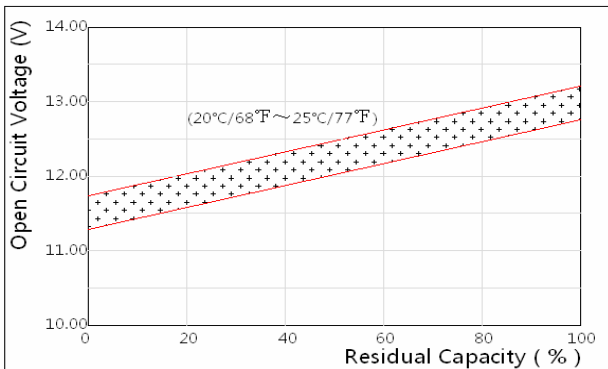
## Effect of Temperature on Capacity



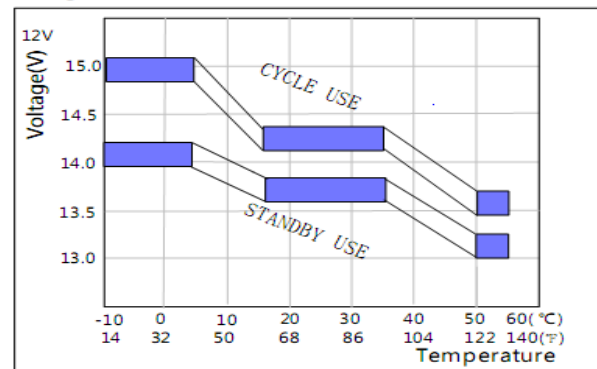
## Self-discharge Characteristics



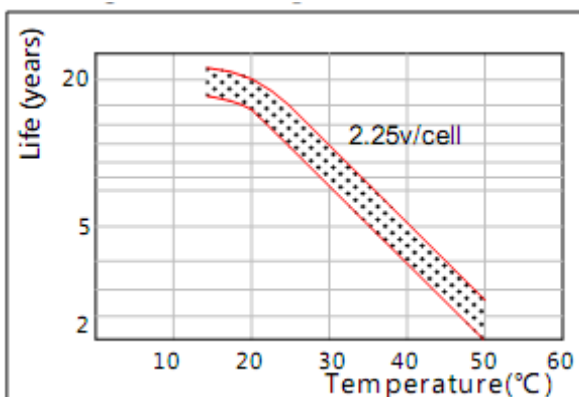
## The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



## The Relationship for Charging Voltage and Temperature



## Floating Life on Temperature



## Cycle Life on D.O.D(25°C)

