

# LFPV1270 (12V70Ah)

## Specifications

Nominal Voltage		12 V
Capacity (25°C)	20HR(10.8V)	70 Ah
	5HR(10.8V)	56Ah
	1HR(10.8V)	33Ah
Dimension	Length	348mm ± 2 (13.7inch)
	Width	167mm ± 2 (6.57inch)
	Height	179mm ± 2 (7.05inch)
	Total Height	179 ± 2mm (7.05inch)
Terminal type		T9
Internal resistance (Fully charged, 25°C)		Approx. 18.5m Ω
Capacity affected by temperature (10HR)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
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 13.80V Temperature compensation: -18mV/°C
Cyclic charging voltage(25°C)		14.10 to 14.40V Temperature compensation: -30mV/°C
Maximum charging current		14A
Terminal material		Copper
Maximum discharge current		330A(5 sec.)
Designed floating life(20°C)		20 years

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

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

F.V/TIME	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h
1.60V/cell	54.4	36.4	23.5	16.6	14.3	11.7	10.08	7.89	6.62	3.51	3.20
1.65V/cell	53.3	35.9	23.3	16.5	14.2	11.6	10.02	7.84	6.60	3.59	3.18
1.70V/cell	51.7	34.9	23.1	16.4	14.1	11.5	9.95	7.79	6.58	3.56	3.16
1.75V/cell	50.4	34.3	22.8	16.3	14.0	11.4	9.88	7.74	6.53	3.52	3.14
1.80V/cell	48.6	33.2	22.2	16.1	13.9	11.2	9.58	7.66	6.50	3.50	3.11

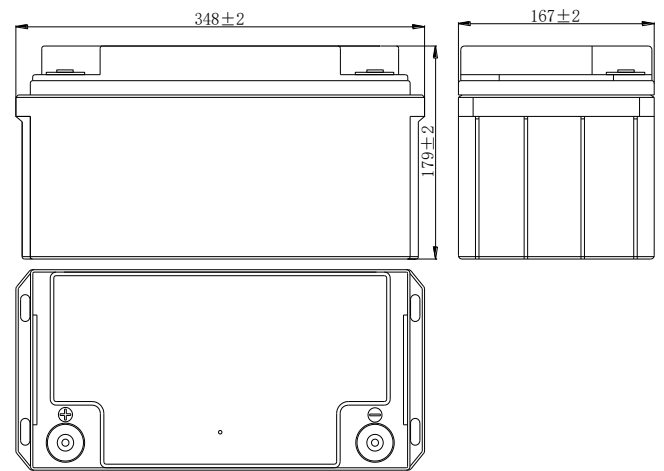
## Constant Power Discharge Characteristics (Watt, 25°C)

F.V/TIME	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h
1.60V/cell	101.7	69.2	45.3	32.6	28.1	23.0	19.9	15.6	13.2	7.01	6.43
1.65V/cell	99.7	68.1	45.1	32.4	27.9	22.9	19.7	15.5	13.1	6.97	6.39
1.70V/cell	96.6	66.4	44.7	32.2	27.7	22.7	19.6	15.4	13.1	6.92	6.35
1.75V/cell	94.3	65.1	44.0	32.0	27.5	22.5	19.5	15.3	13.0	6.88	6.31
1.80V/cell	90.8	63.1	42.9	31.5	27.2	22.0	18.9	15.2	12.9	6.84	6.26

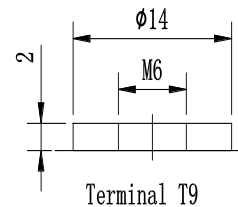
Note: The above characteristics data can be obtained within three charge/discharge cycles.



## Dimensions

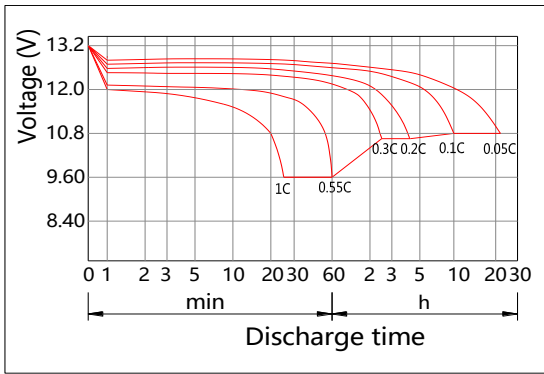


## Terminal

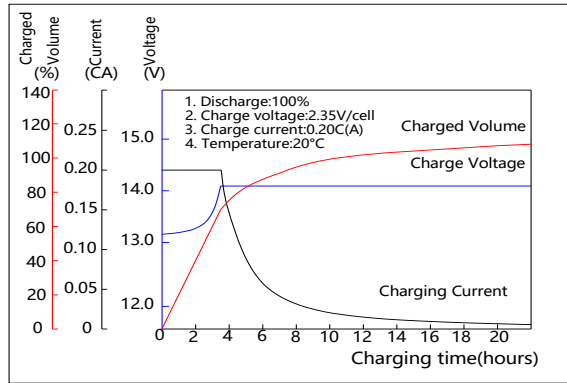


# LFPV1270 (12V70Ah)

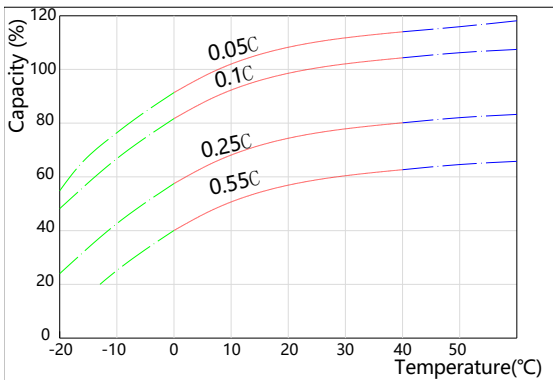
## Discharge Characteristics(25°C)



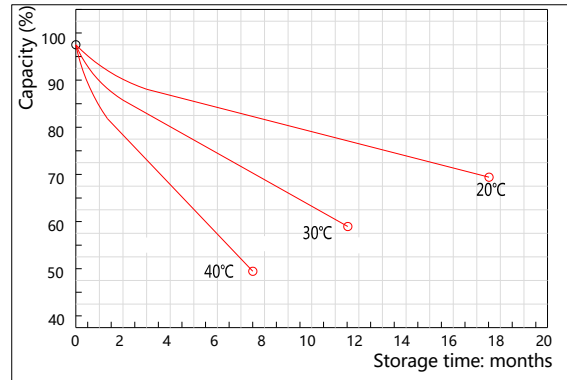
## Charging Characteristics(25°C)



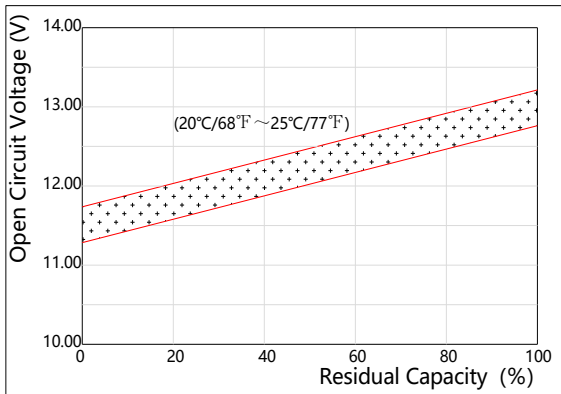
## Effect of Temperature on Capacity



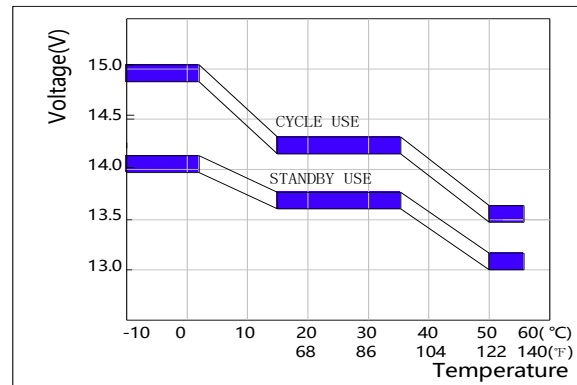
## Self-discharge Characteristics



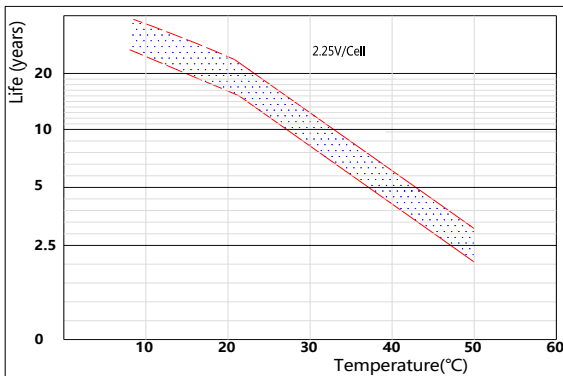
## The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



## The Relationship for Charging Voltage and Temperature



## Floating Life on Temperature



## Cycle Life on D.O.D(25°C)

