

# LFPV1240S (12V40Ah)

## Specifications

Nominal Voltage		12 V
Capacity (25°C)	20HR(10.8V)	40Ah
	5HR(10.8V)	35.6Ah
	1HR(9.60V)	21.2Ah
Dimension	Length	197 ± 2mm (7.76inch)
	Width	165 ± 2mm (6.53inch)
	Height	157 ± 2mm (6.18inch)
	Total Height	157 ± 2mm (6.18inch)
Terminal type		T9
Internal resistance (Fully charged, 25°C)		Approx. 30mΩ
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)		14.10to 14.40V Temperature compensation: -30mV/°C
Maximum charging current		8.0A
Terminal material		Copper
Maximum discharge current		200A (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	29.6	21.3	13.7	9.73	8.37	6.82	5.89	4.61	3.87	2.05	1.82
1.65V/cell	29.0	21.0	13.6	9.67	8.32	6.78	5.86	4.59	3.86	2.04	1.81
1.70V/cell	28.1	20.4	13.5	9.60	8.27	6.73	5.82	4.55	3.85	2.02	1.80
1.75V/cell	27.4	20.0	13.3	9.54	8.21	6.69	5.78	4.52	3.82	2.01	1.79
1.80V/cell	26.4	19.4	13.0	9.39	8.12	6.52	5.60	4.48	3.80	2.00	1.77

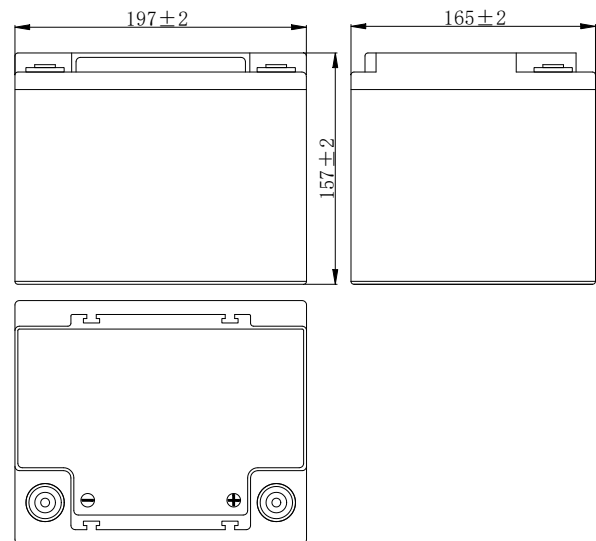
## Constant Power Discharge Characteristics (Watt, 25°C)

F.V/TIME	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h
1.60V/cell	55.4	40.4	26.5	19.8	16.7	14.3	12.22	9.29	8.10	4.32	3.66
1.65V/cell	54.2	39.8	26.3	19.7	16.6	14.2	12.15	9.24	8.09	4.31	3.64
1.70V/cell	52.6	38.7	26.1	19.6	16.5	14.1	12.06	9.17	8.06	4.30	3.62
1.75V/cell	51.3	38.0	25.7	19.4	16.4	14.0	11.98	9.11	8.00	4.27	3.59
1.80V	49.4	36.8	25.0	18.9	15.9	13.6	11.62	8.83	7.96	4.24	3.56

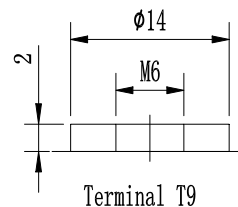
Note: The above characteristics data can be obtained within three charge/discharge cycles.



## Dimensions

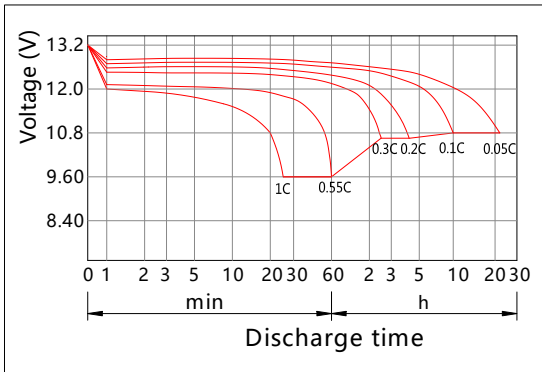


## Terminal

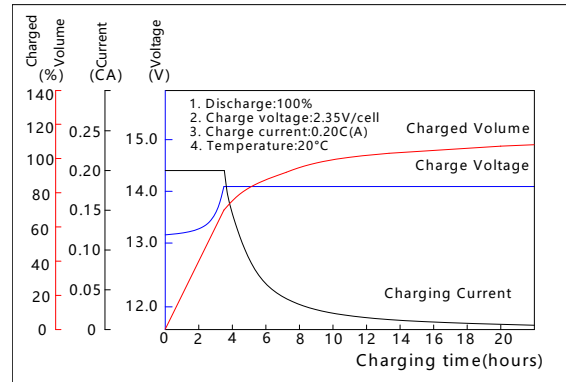


# LFPV1240S (12V40Ah)

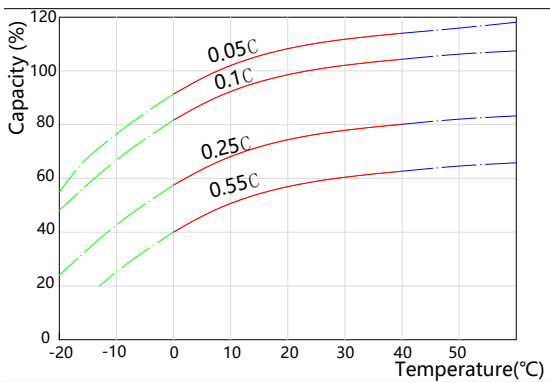
## Discharge Characteristics(25°C)



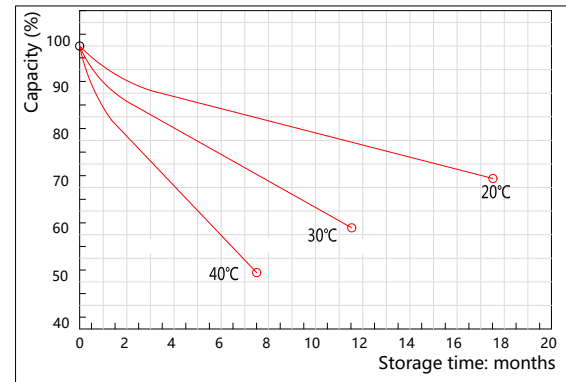
## Charging Characteristics(25°C)



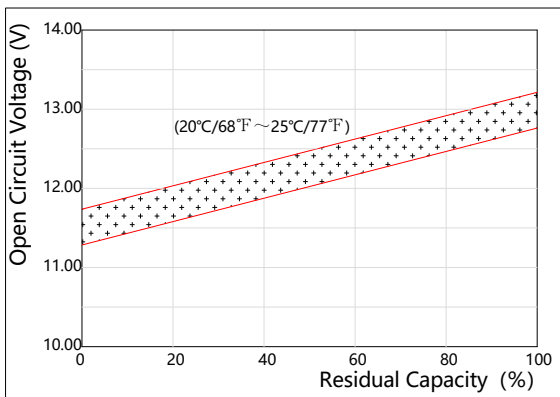
## Effect of Temperature on Capacity



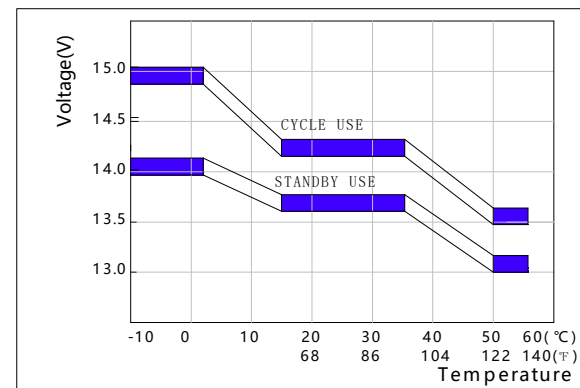
## Self-discharge Characteristics



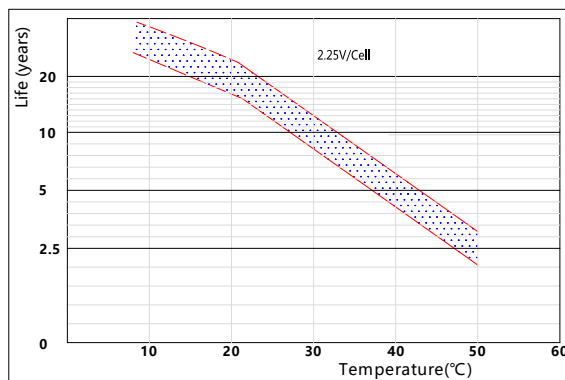
## The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



## The Relationship for Charging Voltage and Temperature



## Floating Life on Temperature



## Cycle Life on D.O.D.(25°C)

