

LFPV1280 (12V80Ah)

Specifications

Nominal Voltage		12 V
Capacity (25°C)	120HR(11.1V)	95Ah
	10HR(10.8V)	80Ah
	1HR(9.6V)	44.8Ah
Dimension	Length	330±2mm (13.0inch)
	Width	171±2mm (6.73inch)
	Height	214±2mm (8.43inch)
	Total Height	T9: 220±2mm (8.66inch)
Approx. Weight		Approx 30.5kg (67.1lbs)
Terminal type		T9
Internal resistance (Fully charged, 25°C)		Approx. 7.8mΩ
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		16A
Terminal material		Copper
Maximum discharge current		400A (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)

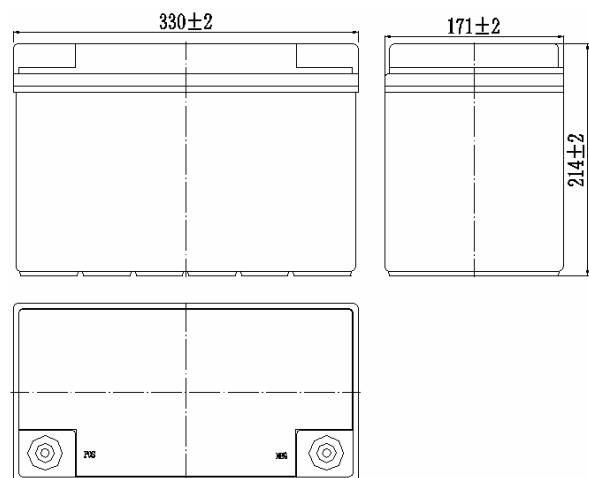
F.V/TIME	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h	48h	72h	120h
1.65V	68.5	44.0	28.7	20.5	17.7	15.2	13.0	9.77	8.13	4.28	3.91	---	---	---
1.70V	66.5	42.9	28.5	20.3	17.5	15.1	12.9	9.68	8.10	4.27	3.88	---	---	---
1.75V	64.7	42.1	28.0	20.0	17.3	15.0	12.8	9.52	8.04	4.24	3.86	1.92	---	---
1.80V	62.4	40.8	27.3	19.8	17.1	14.6	12.4	9.43	8.00	4.21	3.83	1.92	---	---
1.85V	58.0	37.9	25.3	18.9	15.9	13.6	11.5	8.84	7.52	3.96	3.63	1.87	1.29	0.79

Constant Power Discharge Characteristics (Watt, 25°C)

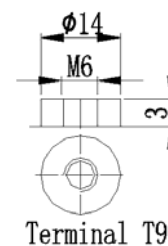
F.V/TIME	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h	48h	72h	120h
1.65V	127	81.9	54.8	39.3	34.1	29.6	25.4	19.2	16.1	8.45	7.72	---	---	---
1.70V	124	80.3	54.6	39.2	34.0	29.5	25.4	19.1	16.0	8.40	7.71	---	---	---
1.75V	122	79.5	54.1	39.1	33.7	29.6	25.0	18.9	16.0	8.40	7.66	3.86	---	---
1.80V	117	77.5	52.9	38.8	33.6	28.8	24.6	18.8	15.9	8.32	7.65	3.85	---	---
1.85V	110	72.8	49.5	37.2	31.4	26.9	23.0	17.6	15.0	7.92	7.27	3.76	2.63	1.65

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

Dimensions



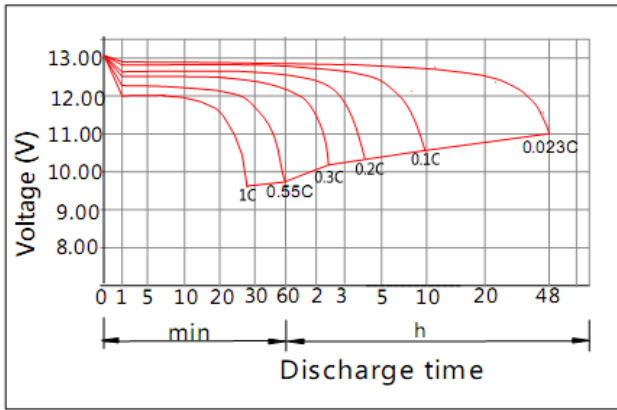
Terminal



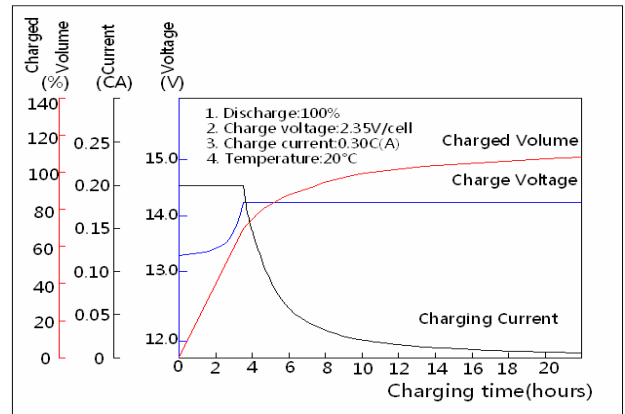
Terminal T9

LFPV1280 (12V80Ah)

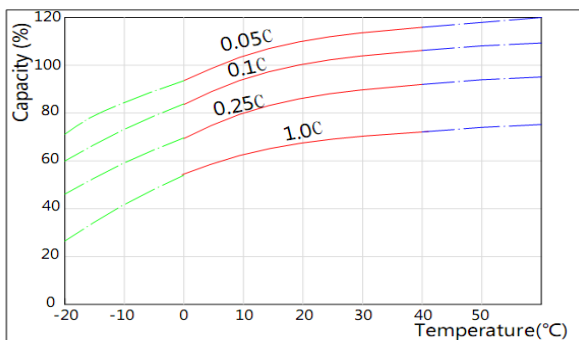
Discharge Characteristics(25°C)



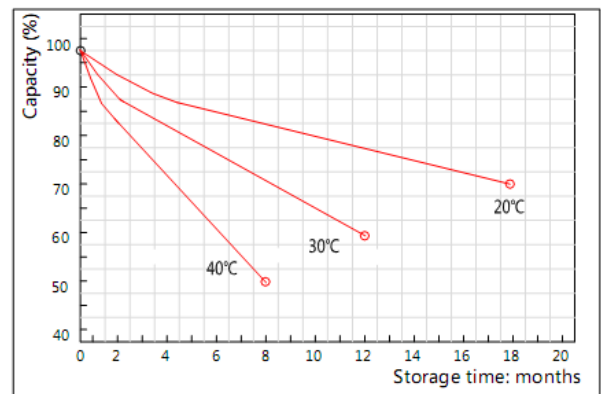
Charging Characteristics(25°C)



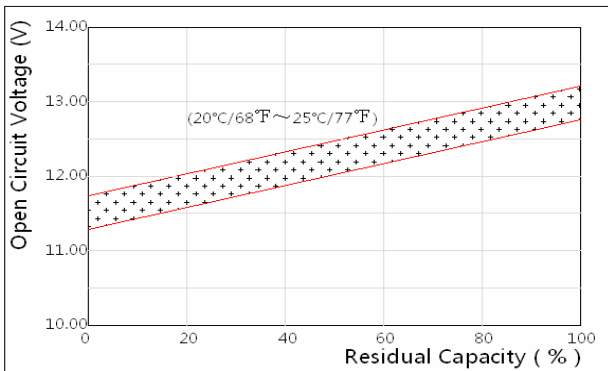
Effect of Temperature on Capacity



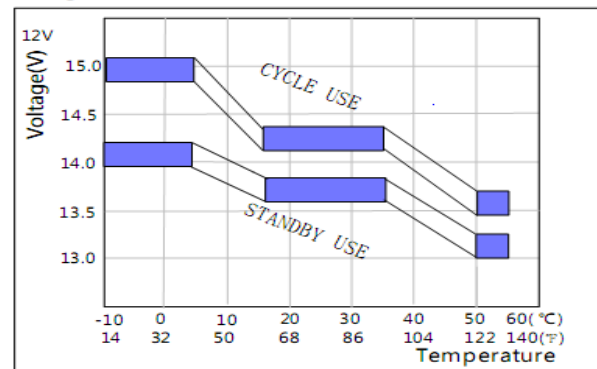
Self-discharge Characteristics



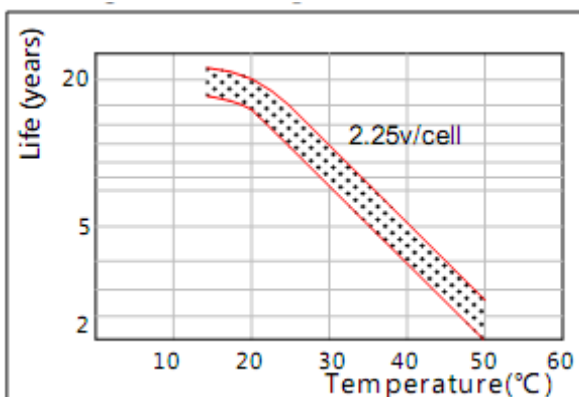
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)

