

LFP1280L (12V80Ah)

Specifications

Nominal Voltage		12 V
Capacity (25°C)	10HR(10.8V)	80 Ah
	5HR(10.5V)	70Ah
	1HR(9.60V)	49.6Ah
Dimension	Length	260mm±2 (10.24inch)
	Width	168mm±2 (6.61inch)
	Height	211mm±2 (8.31inch)
	Total Height	T5: 233±2mm (9.17inch) T9: 214±2mm (8.43inch)
Approx. Weight		25kg (55.1lbs)±4%
Terminal type		T5/T9
Internal resistance (Fully charged, 25°C)		Approx. 5.5mΩ
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: 91%
	6 month	Remaining Capacity: 82%
	12 month	Remaining Capacity: 65%
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)		14.50 to 14.90V Temperature compensation: -30mV/°C
Maximum charging current		24A
Terminal material		Copper
Maximum discharge current		800A(5 sec.)
Designed floating life(20°C)		15 years

- ◆ Absorbent glass mat technology;
- ◆ Recognized by UL & CE;
- ◆ ABS container.

Constant Current Discharge Characteristics (A, 25°C)

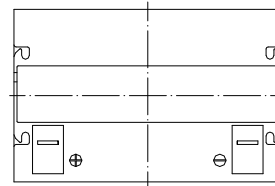
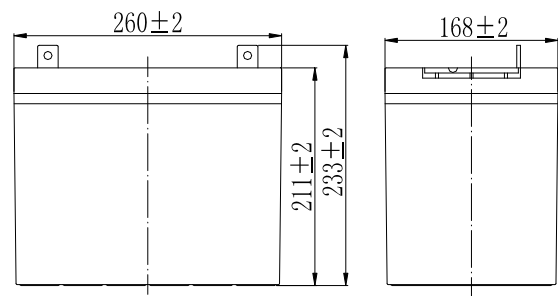
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	163	129	78.4	49.6	29.2	20.4	16.7	14.3	9.79	8.14	4.28
9.90V	158	126	76.8	48.9	29.1	20.3	16.6	14.2	9.73	8.13	4.27
10.2V	152	122	74.5	47.6	28.8	20.1	16.5	14.1	9.67	8.10	4.25
10.5V	145	117	72.7	46.7	28.4	20.0	16.4	14.0	9.60	8.06	4.23
10.8V	137	111	70.0	45.2	27.6	19.4	15.9	13.6	9.31	8.00	4.20

Constant Power Discharge Characteristics (Watt, 25°C)

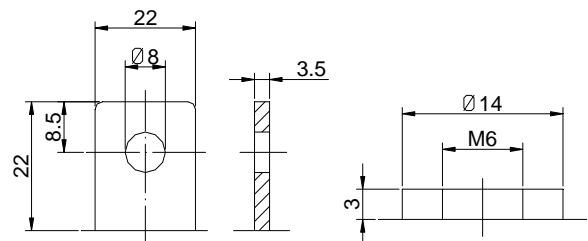
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	1760	1420	880	565	339	240	197	169	116	97.2	51.3
9.90V	1707	1386	862	557	337	238	196	168	116	97.0	51.2
10.2V	1637	1335	836	543	334	237	194	167	115	96.8	51.1
10.5V	1566	1290	815	532	329	235	193	165	114	96.2	50.8
10.8V	1478	1222	786	516	320	228	187	161	111	95.5	50.4

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

Dimensions



Terminal

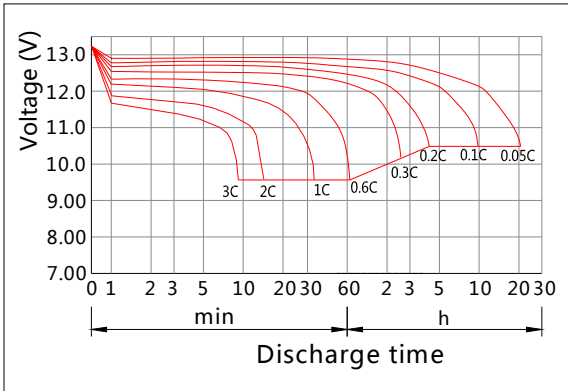


Terminal T5

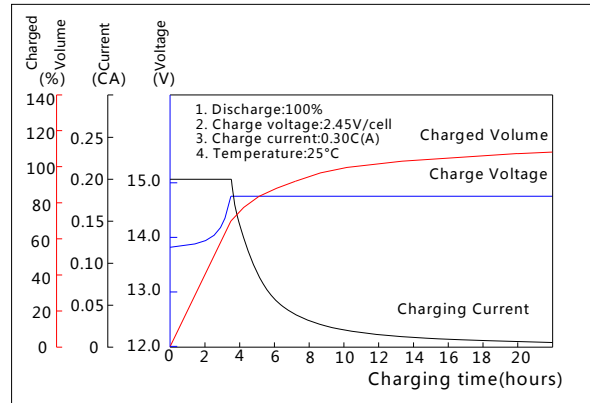
Terminal T9

LFP1280L (12V80Ah)

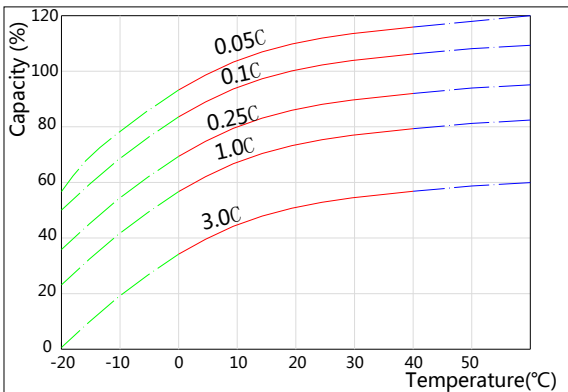
Discharge Characteristics(25°C)



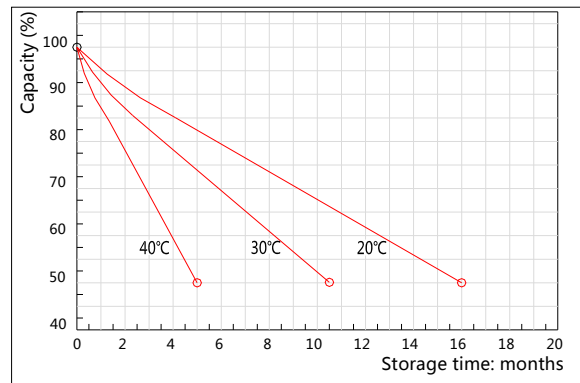
Charging Characteristics(25°C)



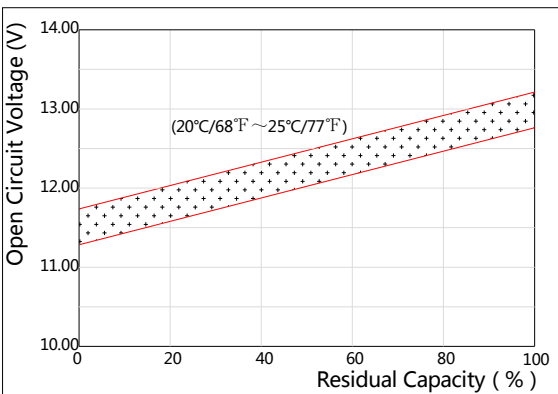
Effect of Temperature on Capacity



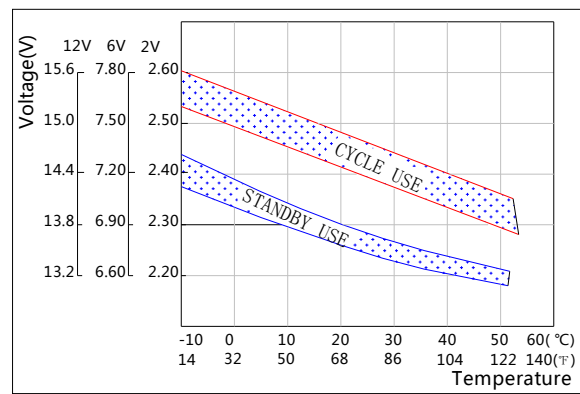
Self-discharge Characteristics



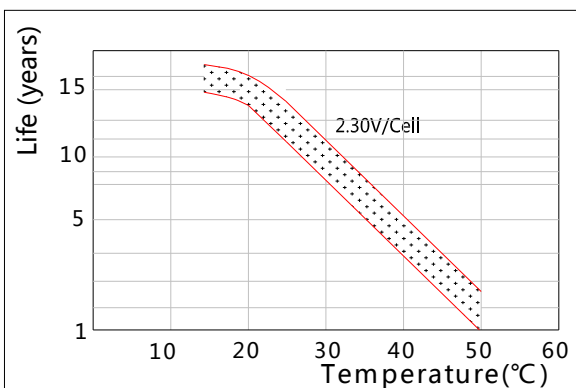
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D.(25°C)

