

LFP12120D(12V120Ah)

Specifications

Nominal Voltage		12 V
Capacity (25°C)	10HR(10.8V)	120 Ah
	5HR(10.5V)	105Ah
	1HR(9.60V)	75Ah
Dimension	Length	409 ± 2mm (16.1inch)
	Width	176 ± 2mm (6.93inch)
	Height	225 ± 2mm (8.86inch)
	Total Height	225 ± 2mm (8.86inch)
Approx. Weight		35kg (77.2lbs) ± 4%
Terminal type		T5/T11
Internal resistance (Fully charged, 25°C)		Approx. 4m 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: 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		36A
Terminal material		Copper
Maximum discharge current		960A(5 sec.)
Designed floating life(20°C)		7~10 years

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

Constant Current Discharge Characteristics (A, 25°C)

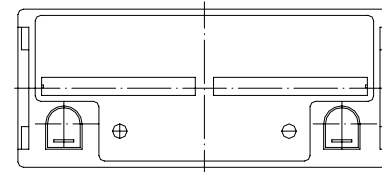
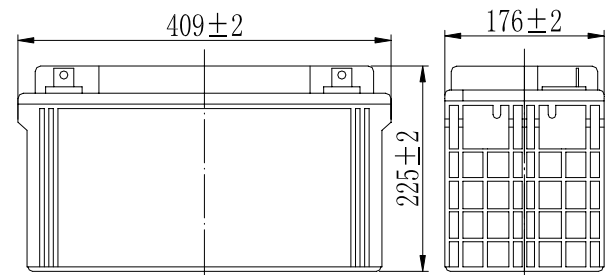
F.V/TIME	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h
9.60V	200	121	75.1	43.8	30.6	25.1	21.4	18.7	14.7	12.2	6.41
9.90V	195	119	74.0	43.6	30.4	24.9	21.3	18.6	14.6	12.2	6.40
10.2V	188	115	72.1	43.2	30.2	24.8	21.1	18.5	14.5	12.2	6.38
10.5V	182	112	70.7	42.6	30.0	24.6	21.0	18.4	14.4	12.1	6.34
10.8V	172	108	68.5	41.5	29.1	23.9	20.4	17.8	14.0	12.0	6.30

Constant Power Discharge Characteristics (Watt, 25°C)

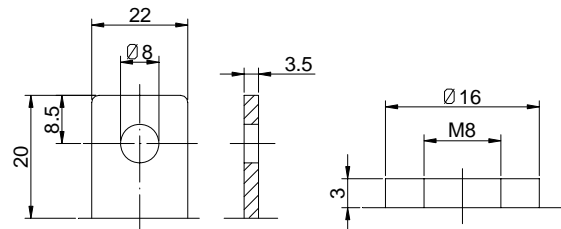
F.V/TIME	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h
9.60V	2196	1360	857	508	360	295	253	221	174	146	77.0
9.90V	2143	1333	844	505	358	293	252	220	173	146	76.8
10.2V	2064	1292	822	500	355	291	250	219	172	145	76.6
10.5V	1994	1261	806	493	353	289	248	217	171	144	76.1
10.8V	1888	1214	781	480	342	281	241	211	166	143	75.6

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

Dimensions



Terminal

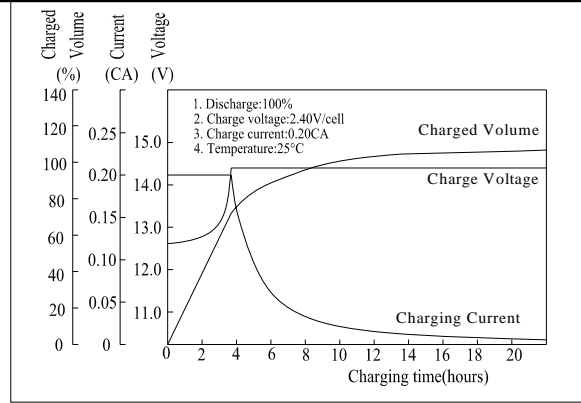
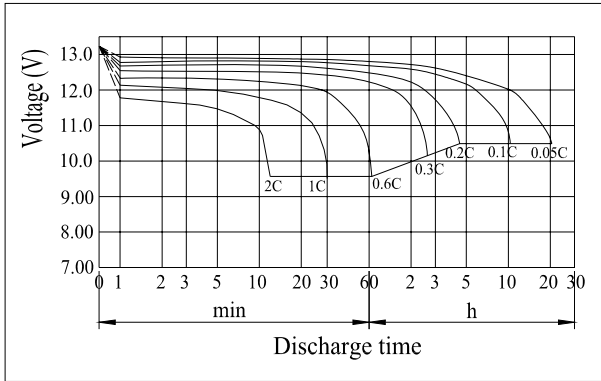


Terminal T5

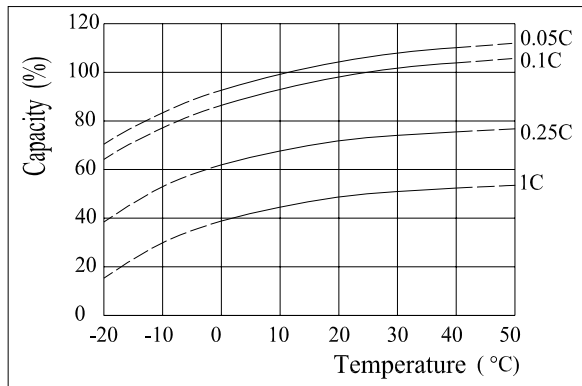
Terminal T11

LFP12120D(12V120Ah)

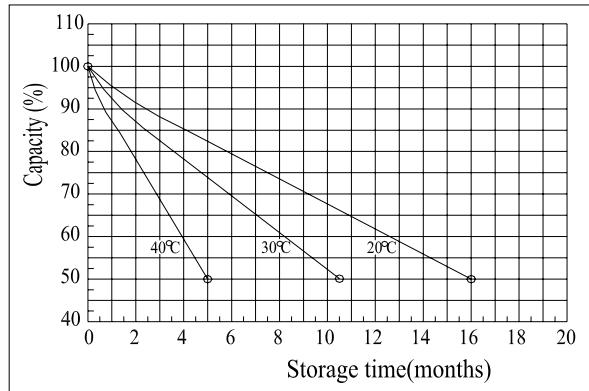
Discharge Characteristics(25°C)



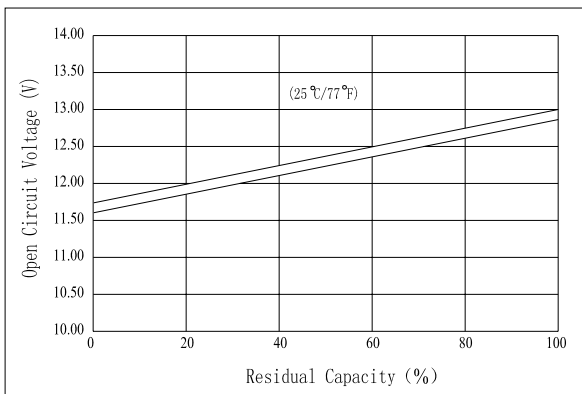
Effect of Temperature on Capacity



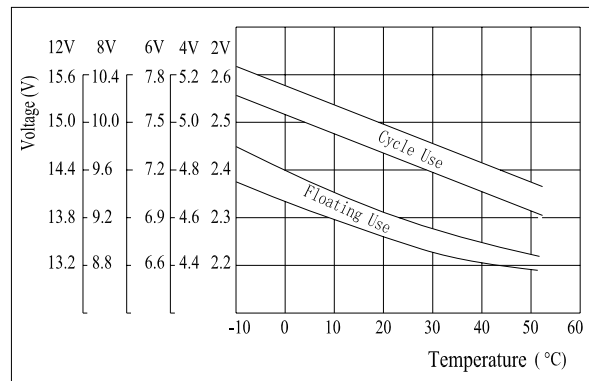
Self-discharge Characteristics



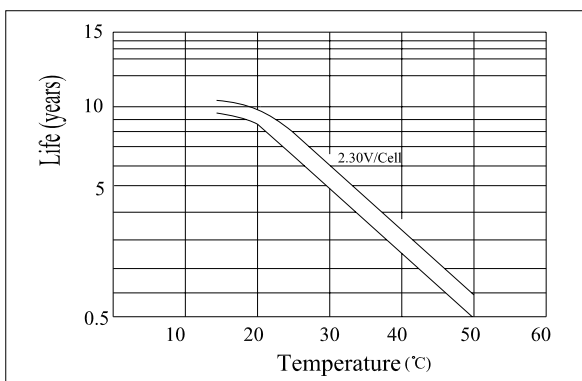
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



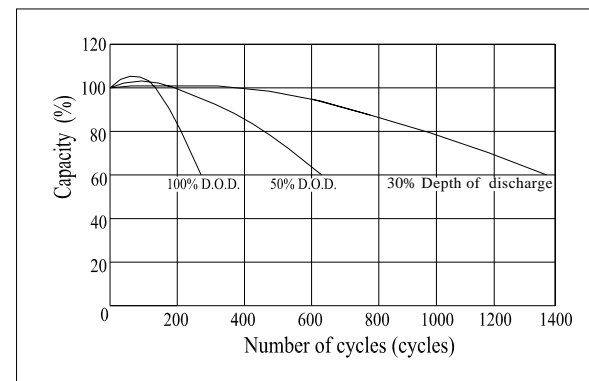
The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D.(25°C)



Charging Characteristics(25°C)