

LFP1290T (12V90Ah)

Specifications

Nominal Voltage		12 V
Capacity (25°C)	10HR(10.8V)	90 Ah
	5HR(10.5V)	79Ah
	1HR(9.60V)	55.8Ah
Dimension	Length	306mm±2 (12.05inch)
	Width	169mm±2 (6.65inch)
	Height	211mm±2 (8.31inch)
	Total Height	T5: 233±2mm (9.17inch) T9: 214±2mm (8.43inch)
Approx. Weight		28.5kg (62.8lbs)±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 ~ 70°C (5°F ~ 158°F)
	Charge	-10°C ~ 70°C (14°F ~ 158°F)
	Storage	-20°C ~ 70°C (-4°F ~ 158°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		27A
Terminal material		Copper
Maximum discharge current		800A(5 sec.)
Designed floating life(20°C)		12 years

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

Constant Current Discharge Characteristics (A, 25°C)

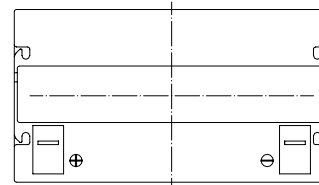
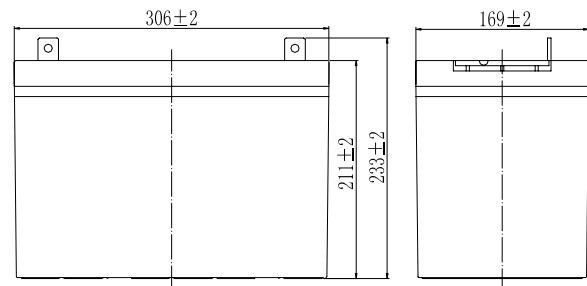
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	183	146	88.2	55.8	32.9	23.0	18.8	16.1	11.0	9.16	4.81
9.90V	178	142	86.4	55.0	32.7	22.8	18.7	16.0	11.0	9.14	4.80
10.2V	170	137	83.8	53.6	32.4	22.7	18.6	15.9	10.9	9.12	4.79
10.5V	163	132	81.8	52.5	31.9	22.5	18.5	15.8	10.8	9.06	4.76
10.8V	154	125	78.8	50.9	31.1	21.8	17.9	15.3	10.5	9.00	4.73

Constant Power Discharge Characteristics (Watt, 25°C)

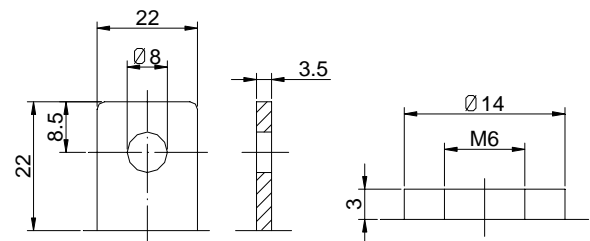
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	1980	1598	990	636	381	270	221	190	131	109	57.7
9.90V	1921	1560	970	627	379	268	220	189	130	109	57.6
10.2V	1841	1502	940	611	375	266	218	187	129	109	57.4
10.5V	1762	1451	917	599	370	265	217	186	128	108	57.1
10.8V	1663	1374	884	580	360	257	210	181	124	107	56.7

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

Dimensions



Terminal

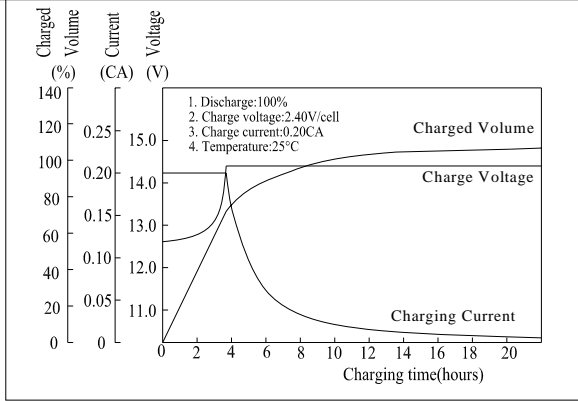
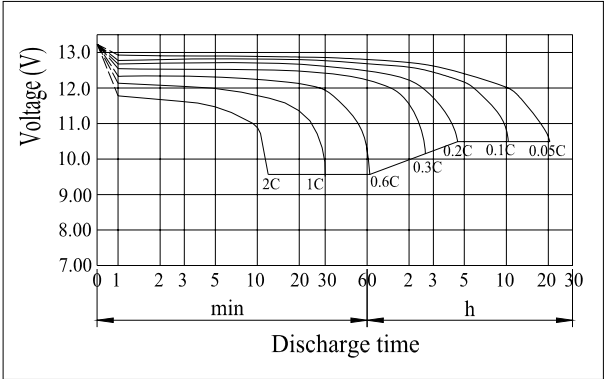


Terminal T5

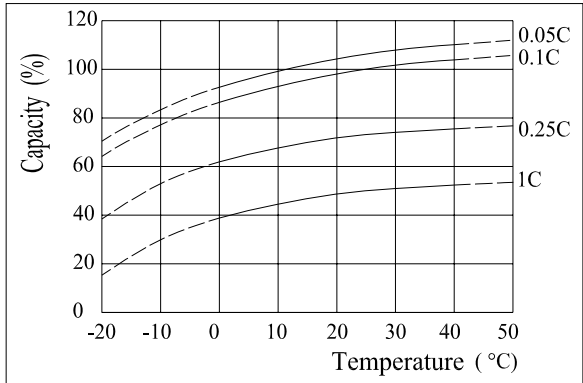
Terminal T9

LFP1290T (12V90Ah)

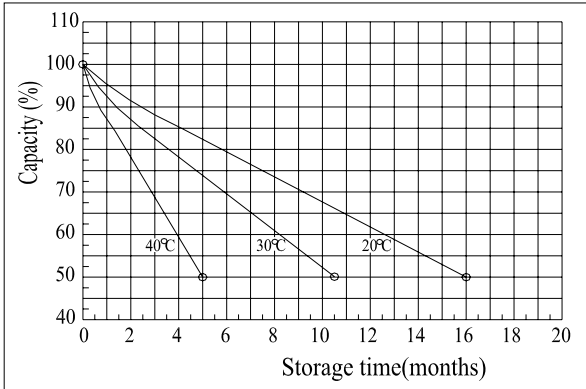
Discharge Characteristics(25°C)



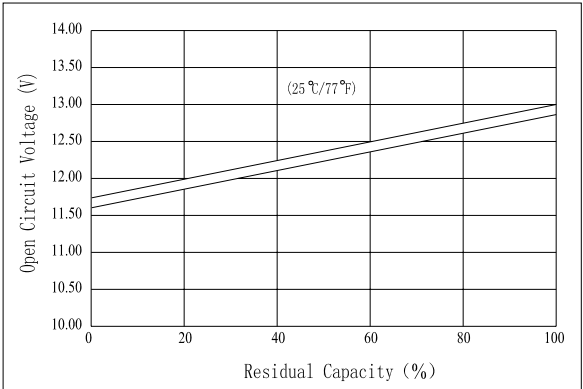
Effect of Temperature on Capacity



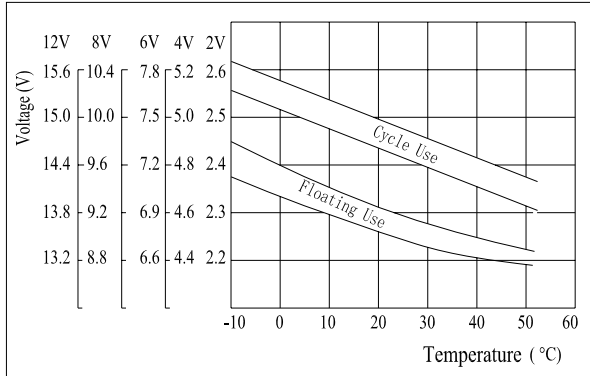
Self-discharge Characteristics



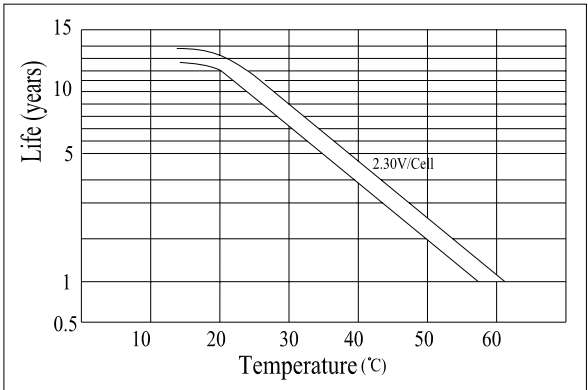
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



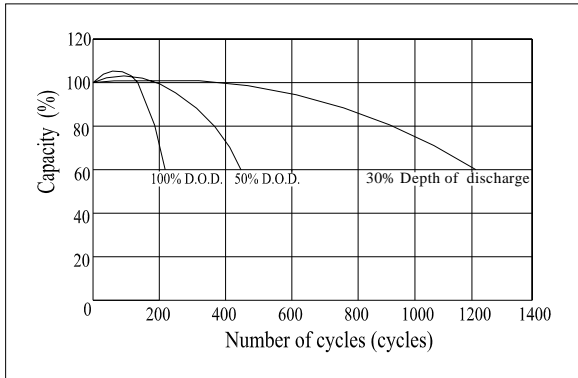
The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)



Charging Characteristics(25°C)