

LFP12100T(12V100Ah)

Specifications

Nominal Voltage		12 V
Capacity (25°C)	10HR(10.8V)	100 Ah
	5HR(10.5V)	87Ah
	1HR(9.60V)	62Ah
Dimension	Length	330±2mm (12.99inch)
	Width	171±2mm (6.73inch)
	Height	214±2mm (8.43inch)
	Total Height	T5: 224±2mm (8.82inch) T9: 220±2mm (8.66inch)
Approx. Weight		32kg (70.6lbs)±4%
Terminal type		T9
Internal resistance (Fully charged, 25°C)		Approx. 4.5mΩ
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		30A
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)

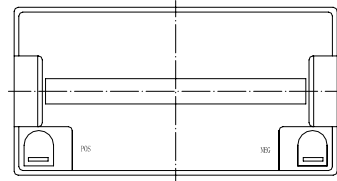
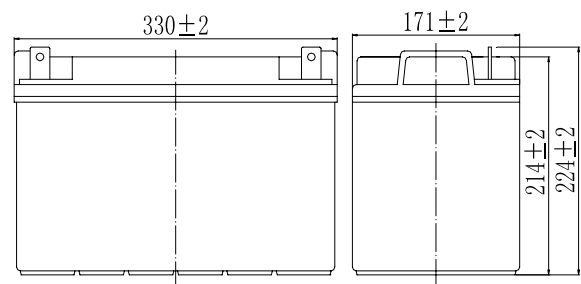
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	204	162	98.0	62.0	36.5	25.5	20.9	17.9	12.2	10.2	5.34
9.90V	198	158	96.0	61.1	36.3	25.4	20.8	17.7	12.2	10.2	5.33
10.2V	189	152	93.1	59.5	36.0	25.2	20.6	17.6	12.1	10.1	5.32
10.5V	181	147	90.8	58.3	35.5	25.0	20.5	17.5	12.0	10.1	5.29
10.8V	171	139	87.5	56.5	34.6	24.3	19.9	17.0	11.6	10.0	5.25

Constant Power Discharge Characteristics (Watt, 25°C)

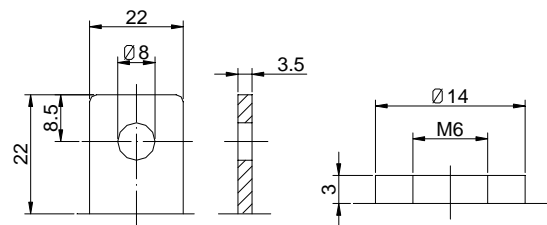
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	2200	1775	1100	707	423	300	246	211	145	122	64.1
9.90V	2134	1733	1078	696	421	298	244	210	145	121	64.0
10.2V	2046	1669	1045	679	417	296	243	208	144	121	63.8
10.5V	1958	1612	1019	665	411	294	241	207	143	120	63.4
10.8V	1848	1527	982	645	400	285	234	201	138	119	63.0

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

Dimensions



Terminal

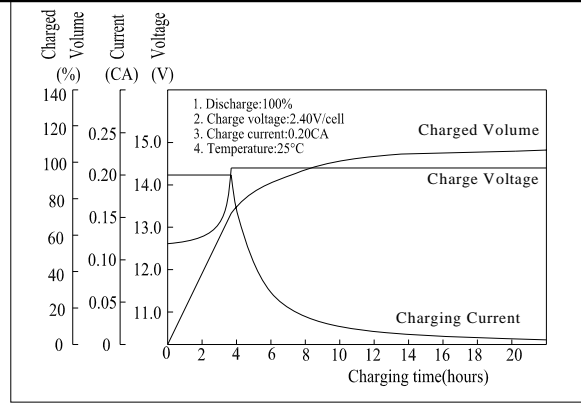
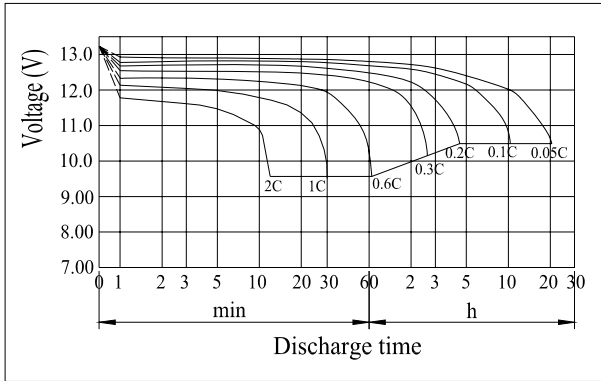


Terminal T5

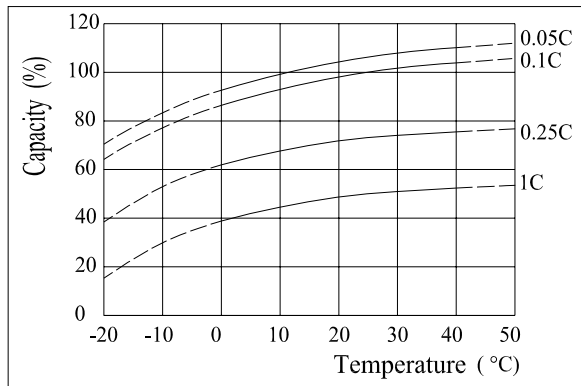
Terminal T9

LFP12100T(12V100Ah)

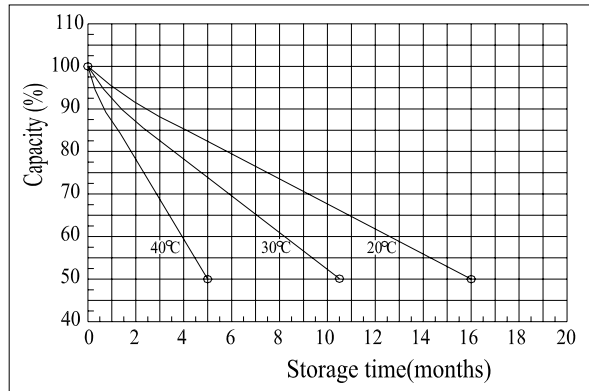
Discharge Characteristics(25°C)



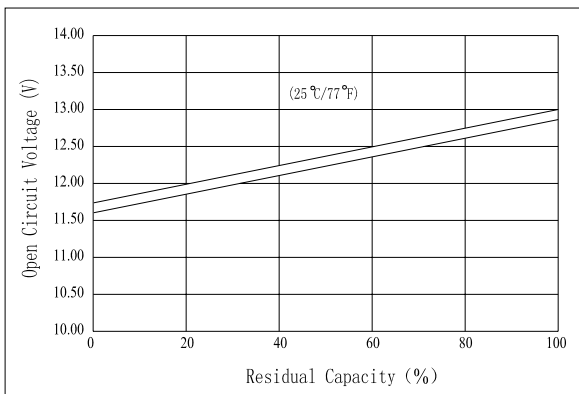
Effect of Temperature on Capacity



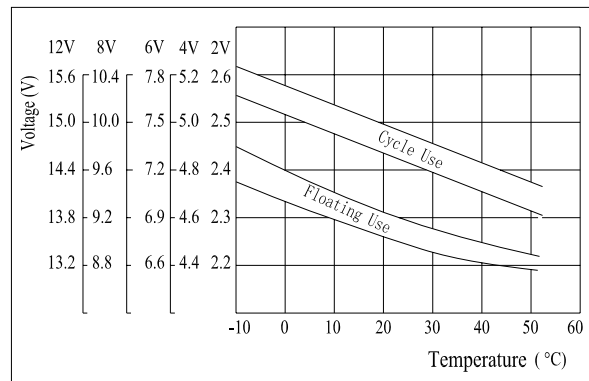
Self-discharge Characteristics



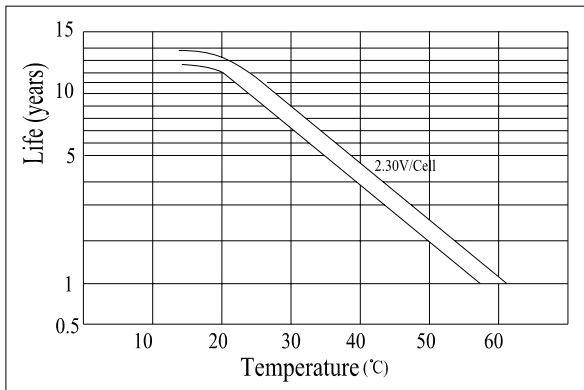
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



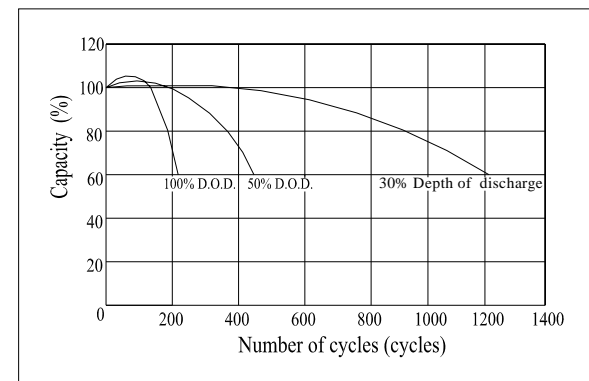
The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)



Charging Characteristics(25°C)