

LFP1270D (12V70Ah)

Specifications

Nominal Voltage		12 V
Capacity (25°C)	10HR(10.8V)	70 Ah
	5HR(10.5V)	61.5Ah
	1HR(9.60V)	43.8Ah
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		22kg (48.5lbs)±4%
Terminal type		T5/T9
Internal resistance (Fully charged, 25°C)		Approx. 6.5mΩ
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		21A
Terminal material		Copper
Maximum discharge current		700A(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)

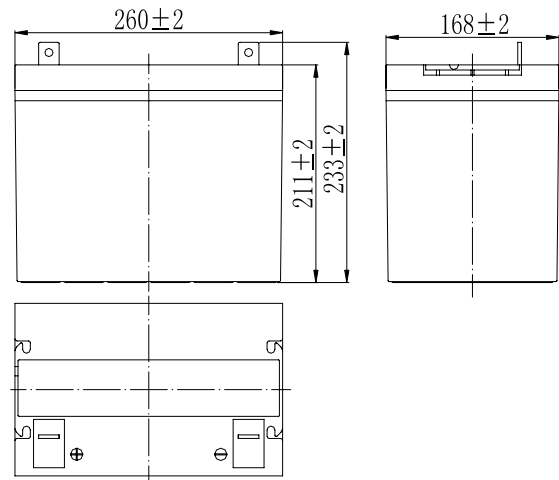
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	150	117	70.7	43.8	25.6	17.9	14.6	12.5	8.57	7.13	3.74
9.90V	145	114	69.3	43.2	25.4	17.7	14.6	12.4	8.52	7.11	3.73
10.2V	139	110	67.2	42.1	25.2	17.6	14.5	12.3	8.46	7.09	3.72
10.5V	133	106	65.5	41.2	24.8	17.5	14.4	12.3	8.40	7.05	3.70
10.8V	126	100	63.1	40.0	24.2	17.0	13.9	11.9	8.15	7.00	3.68

Constant Power Discharge Characteristics (Watt, 25°C)

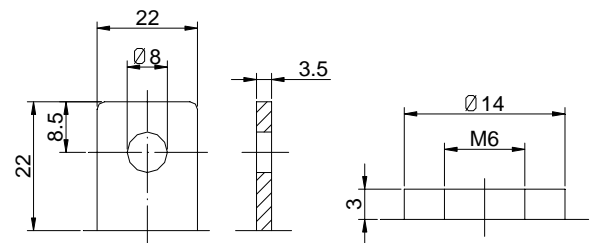
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	1619	1281	793	500	296	210	172	148	102	85.1	44.9
9.90V	1571	1250	777	492	294	209	171	147	101	84.9	44.8
10.2V	1506	1204	754	480	292	207	170	146	100	84.7	44.7
10.5V	1441	1163	735	470	287	206	169	145	99.8	84.2	44.4
10.8V	1360	1102	708	456	280	200	164	140	96.8	83.6	44.1

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

Dimensions



Terminal

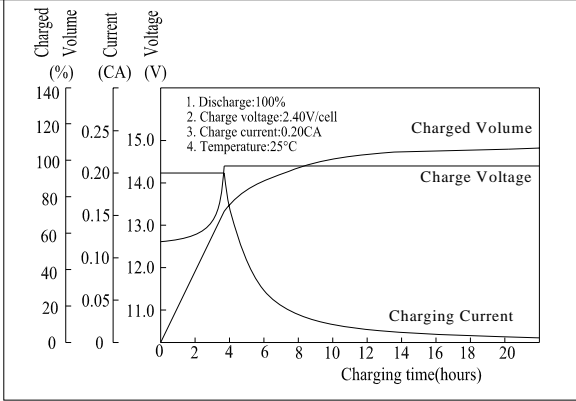
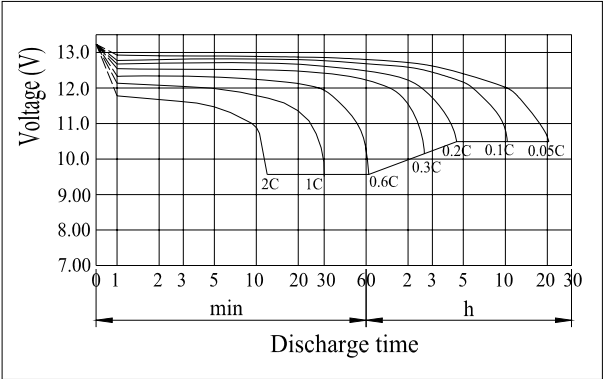


Terminal T5

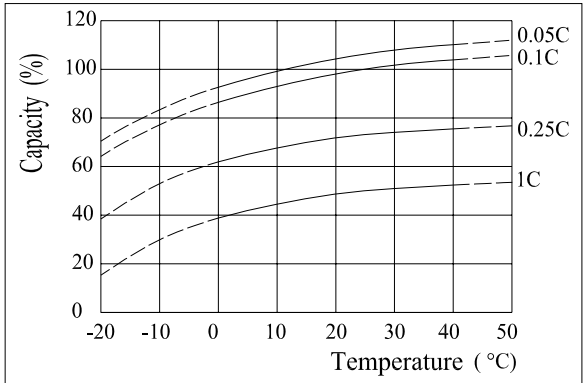
Terminal T9

LFP1270D (12V70Ah)

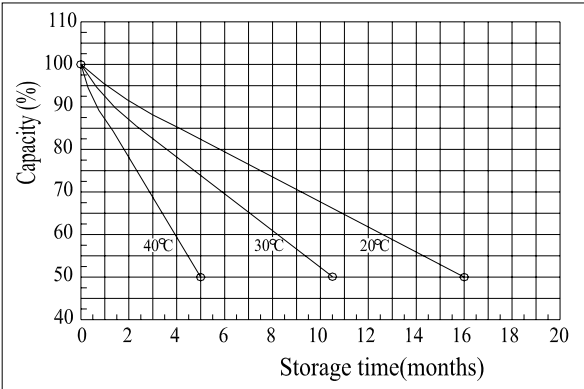
Discharge Characteristics(25°C)



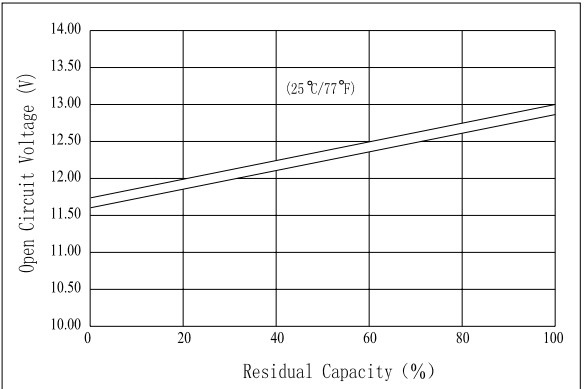
Effect of Temperature on Capacity



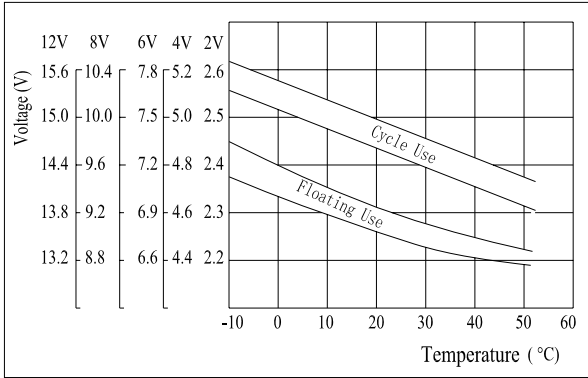
Self-discharge Characteristics



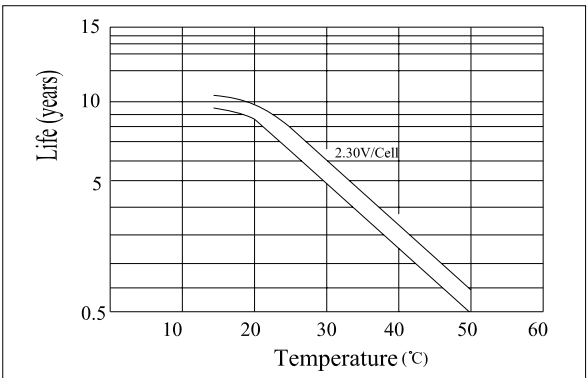
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



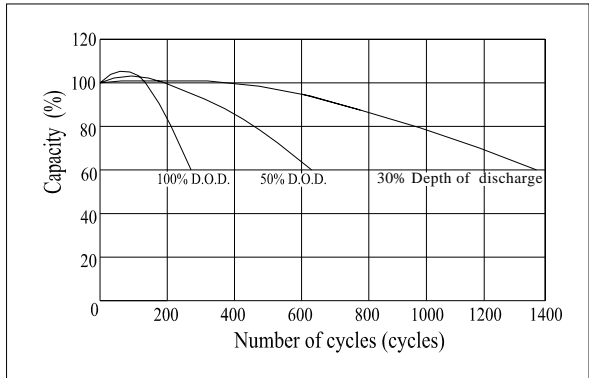
The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D.(25°C)



Charging Characteristics(25°C)