

Specifications

Nominal Voltage		12 V
Capacity (25°C)	10HR(10.8V)	55 Ah
	5HR(10.5V)	48Ah
	1HR(9.60V)	34.4Ah
Dimension	Length	229 ± 2mm (9.02inch)
	Width	138 ± 2mm (5.43inch)
	Height	208 ± 2mm (8.19inch)
	Total Height	T5: 230 ± 2mm (9.06inch) T9: 211 ± 2mm (8.31inch)
Approx. Weight		17.3kg (38.1lbs) ± 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		16.5A
Terminal material		Copper
Maximum discharge current		550A(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)

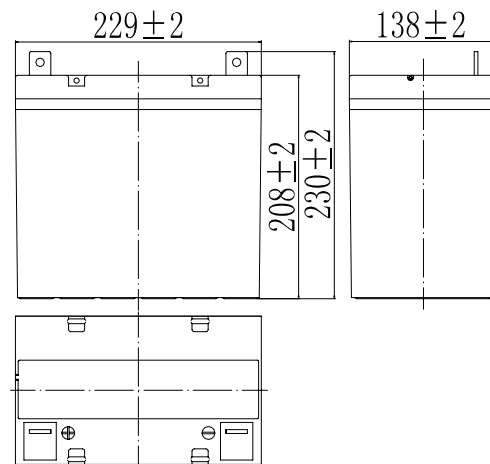
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	118	91.7	55.6	34.4	20.1	14.0	11.5	9.82	6.73	5.60	2.94
9.90V	114	89.5	54.4	33.9	20.0	13.9	11.4	9.76	6.69	5.59	2.93
10.2V	110	86.2	52.8	33.1	19.8	13.8	11.4	9.69	6.65	5.57	2.93
10.5V	105	83.2	51.5	32.4	19.5	13.8	11.3	9.63	6.60	5.54	2.91
10.8V	99	78.8	49.6	31.4	19.0	13.3	10.9	9.34	6.40	5.50	2.89

Constant Power Discharge Characteristics (Watt, 25°C)

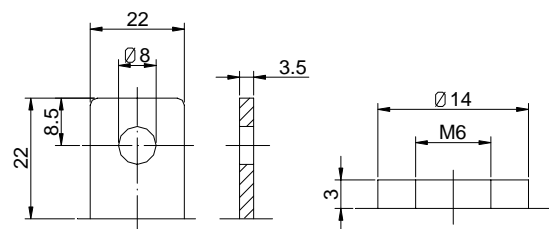
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	1272	1006	623	393	233	165	135	116	80.0	66.9	35.3
9.90V	1234	982	611	387	231	164	134	115	79.5	66.7	35.2
10.2V	1183	946	592	377	229	163	134	115	79.0	66.5	35.1
10.5V	1132	914	578	369	226	162	133	114	78.4	66.1	34.9
10.8V	1069	866	557	358	220	157	129	110	76.1	65.7	34.7

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

Dimensions



Terminal

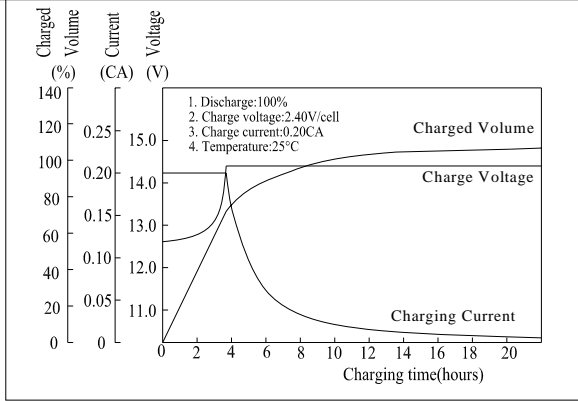
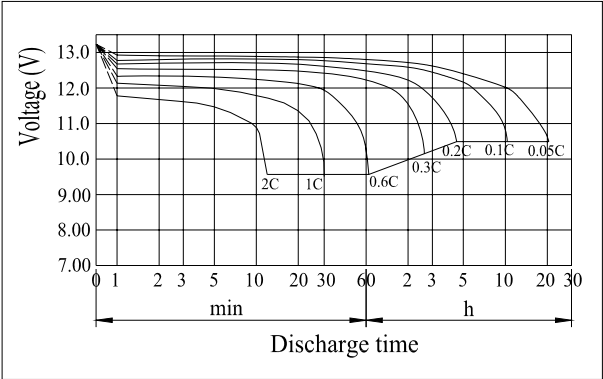


Terminal T5

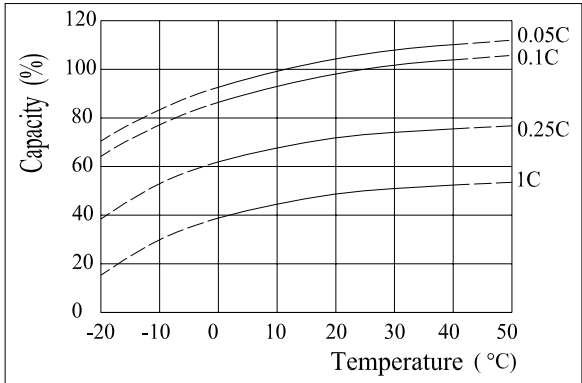
Terminal T9

LFP1255D(12V55Ah)

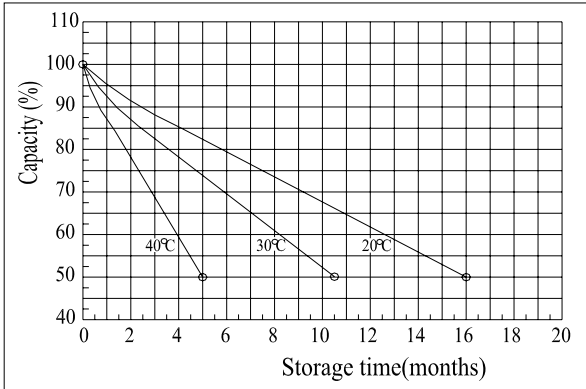
Discharge Characteristics(25°C)



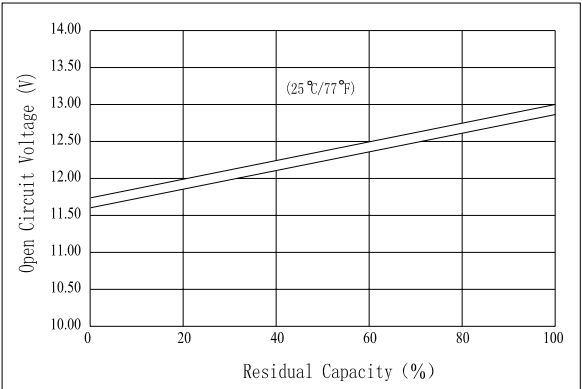
Effect of Temperature on Capacity



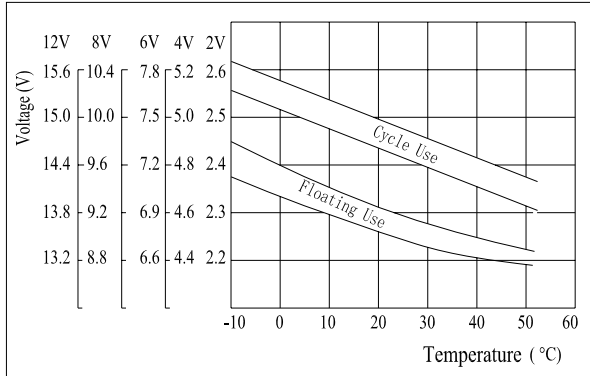
Self-discharge Characteristics



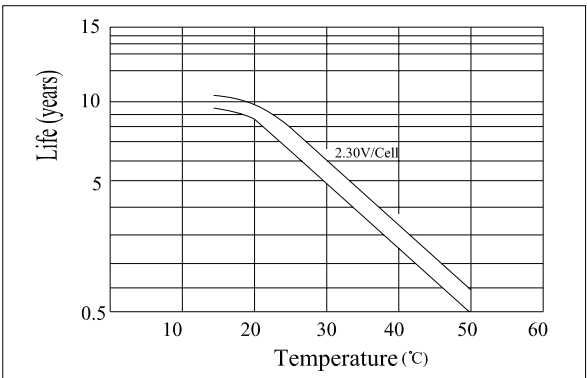
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



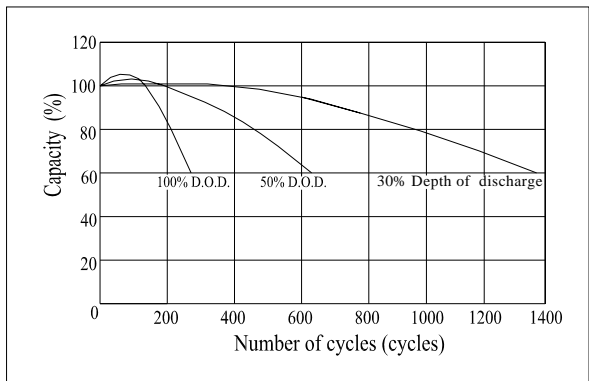
The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)



Charging Characteristics(25°C)