

LFP1255(12V55Ah)

Specifications

Nominal Voltage		12 V
Capacity (25°C)	10HR(10.8V)	55 Ah
	5HR(10.5V)	48Ah
	1HR(9.60V)	34.1Ah
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		16.5kg (36.3lbs) ± 4%
Terminal type		T5/T9
Internal resistance (Fully charged, 25°C)		Approx. 6.5m 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		16.5A
Terminal material		Copper
Maximum discharge current		550A(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	116	90.8	55.0	34.1	20.1	14.0	11.5	9.82	6.73	5.60	2.94
9.90V	112	88.6	53.9	33.6	20.0	13.9	11.4	9.76	6.69	5.59	2.93
10.2V	107	85.3	52.3	32.7	19.8	13.8	11.4	9.69	6.65	5.57	2.93
10.5V	103	82.4	51.0	32.1	19.5	13.8	11.3	9.63	6.60	5.54	2.91
10.8V	97.0	78.0	49.1	31.1	19.0	13.3	10.9	9.34	6.40	5.50	2.89

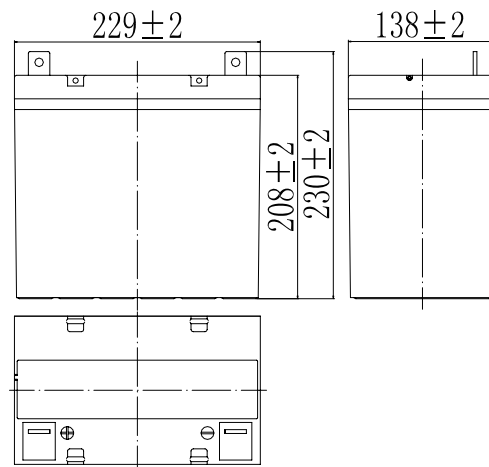
Constant Power Discharge Characteristics (Watt, 25°C)

F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	1247	996	617	389	233	165	135	116	80.0	66.9	35.3
9.90V	1210	973	605	383	231	164	134	115	79.5	66.7	35.2
10.2V	1160	937	586	373	229	163	134	115	79.0	66.5	35.1
10.5V	1110	905	572	366	226	162	133	114	78.4	66.1	34.9
10.8V	1048	857	551	355	220	157	129	110	76.1	65.7	34.7

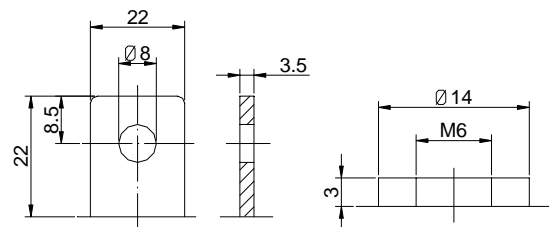
Note: The above characteristics data can be obtained within three charge/discharge cycles.



Dimensions



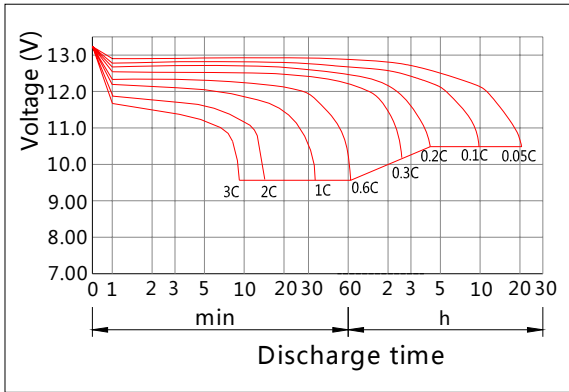
Terminal



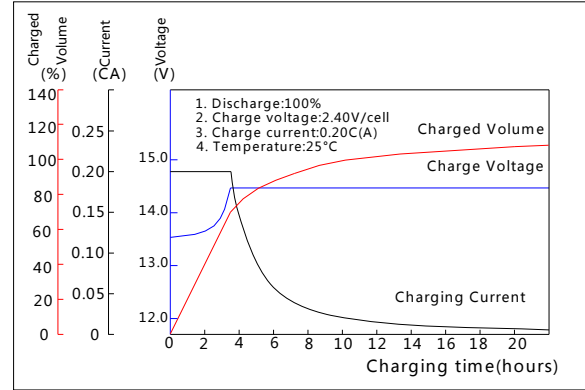
Terminal T5

Terminal T9

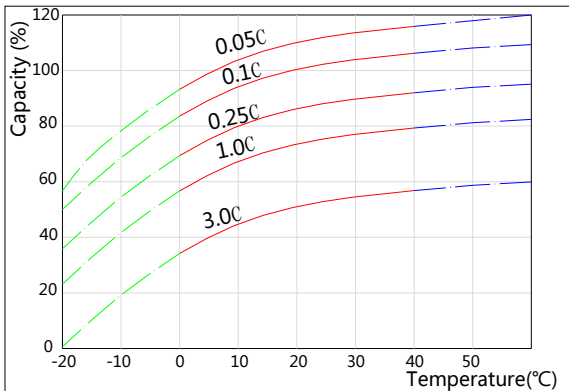
Discharge Characteristics(25°C)



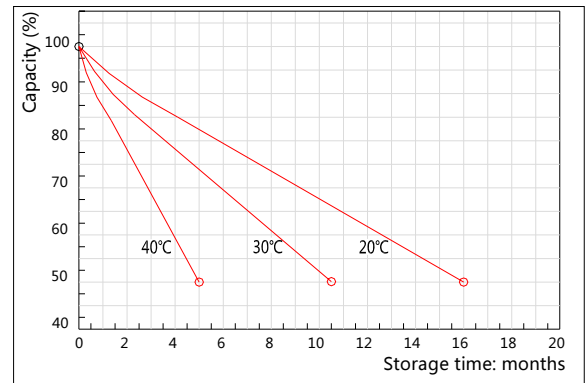
Charging Characteristics(25°C)



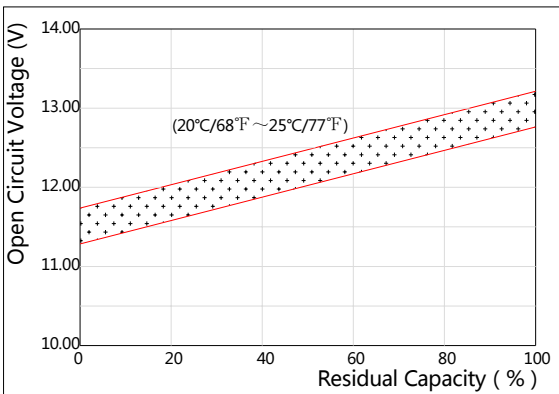
Effect of Temperature on Capacity



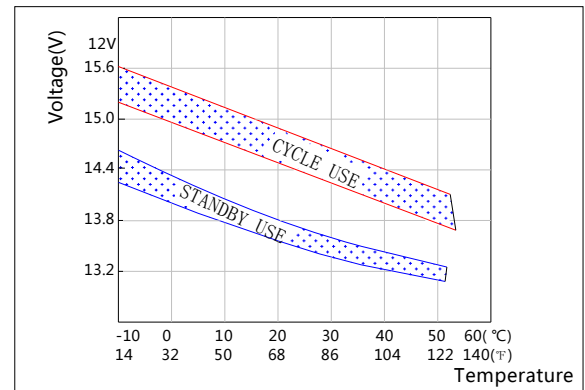
Self-discharge Characteristics



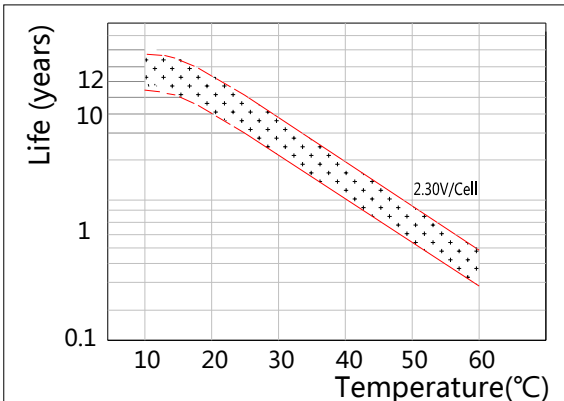
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)

