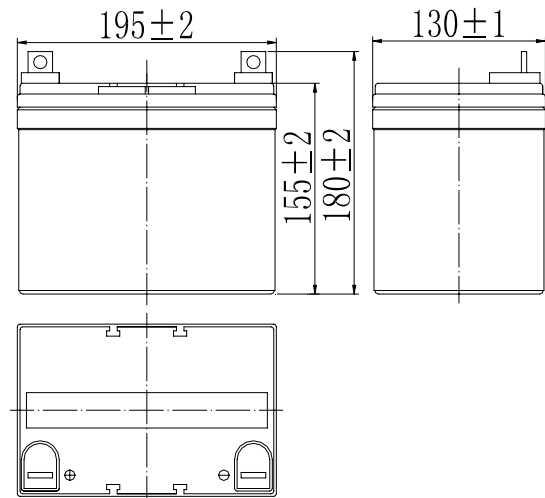


Specifications

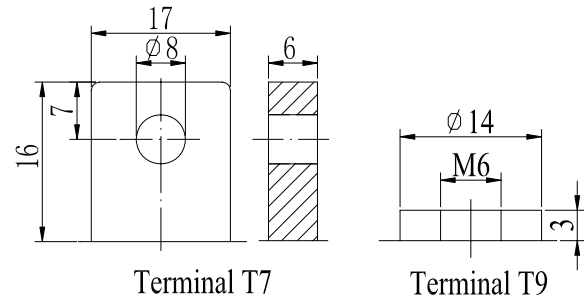
Nominal Voltage		12 V
Capacity (25°C)	10HR(10.8V)	33 Ah
	5HR(10.5V)	28.9Ah
	1HR(9.60V)	20.7Ah
Dimension	Length	195 ± 2mm (7.68inch)
	Width	130 ± 1mm (5.12inch)
	Height	155 ± 2mm (6.10inch)
	Total Height	T7: 180 ± 2mm (7.09inch) T9: 166 ± 2mm (6.54inch)
Approx. Weight		10kg (22.1lbs) ± 4%
Terminal type		T7/T9
Internal resistance (Fully charged, 25°C)		Approx. 10mΩ
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		9.9A
Terminal material		T7: Lead, T9: Copper
Maximum discharge current		330A(5 sec.)
Designed floating life(20°C)		7~10 years

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

Dimensions



Terminal



Constant Current Discharge Characteristics (A, 25°C)

F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	70.7	55.0	33.3	20.7	12.1	8.42	6.90	5.89	4.04	3.36	1.76
9.90V	68.6	53.7	32.7	20.4	12.0	8.37	6.86	5.86	4.02	3.35	1.76
10.2V	65.7	51.7	31.7	19.8	11.9	8.31	6.81	5.82	3.99	3.34	1.76
10.5V	62.9	49.9	30.9	19.4	11.7	8.25	6.77	5.78	3.96	3.32	1.74
10.8V	59.4	47.3	29.8	18.8	11.4	8.00	6.56	5.60	3.84	3.30	1.73

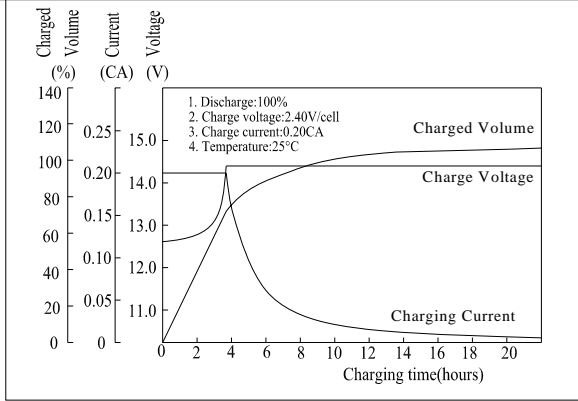
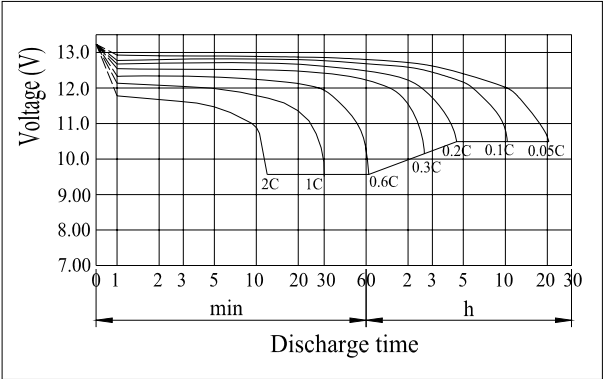
Constant Power Discharge Characteristics (Watt, 25°C)

F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	763	604	374	236	140	99.0	81.1	69.6	48.0	40.1	21.2
9.90V	741	589	366	232	139	98.4	80.7	69.2	47.7	40.0	21.1
10.2V	710	568	355	226	138	97.7	80.1	68.7	47.4	39.9	21.1
10.5V	679	548	347	222	136	97.0	79.6	68.3	47.0	39.7	20.9
10.8V	641	519	334	215	132	94.1	77.2	66.2	45.6	39.4	20.8

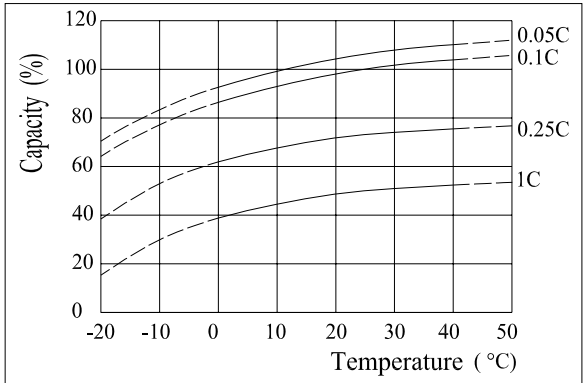
Note: The above characteristics data can be obtained within three charge/discharge cycles.

LFP1233D (12V33Ah)

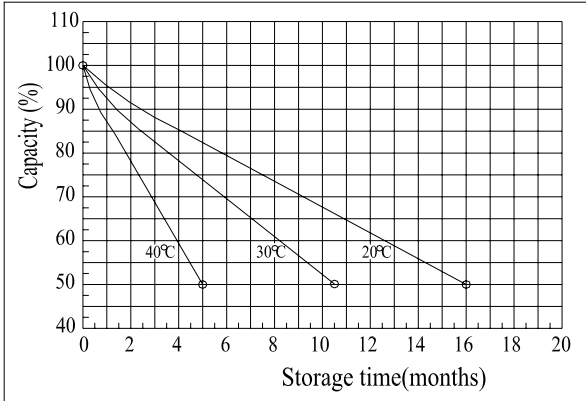
Discharge Characteristics(25°C)



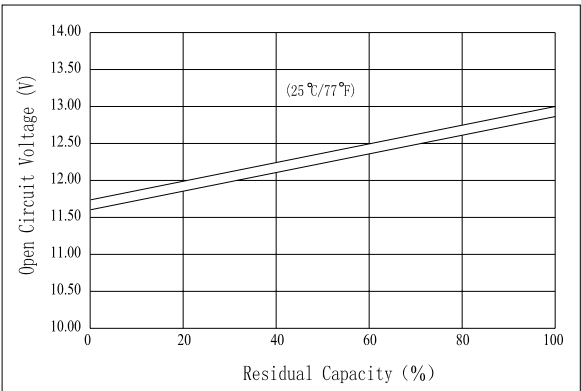
Effect of Temperature on Capacity



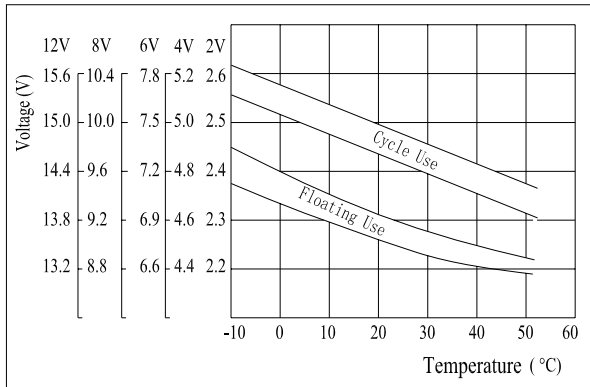
Self-discharge Characteristics



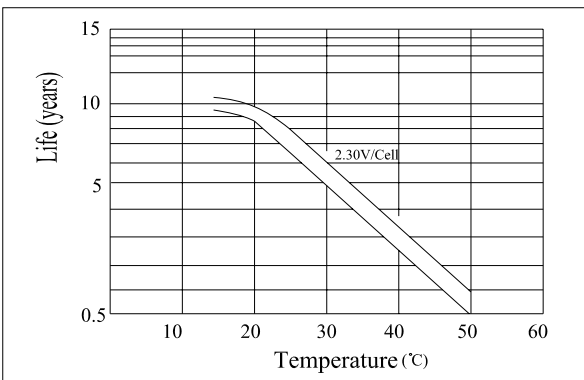
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



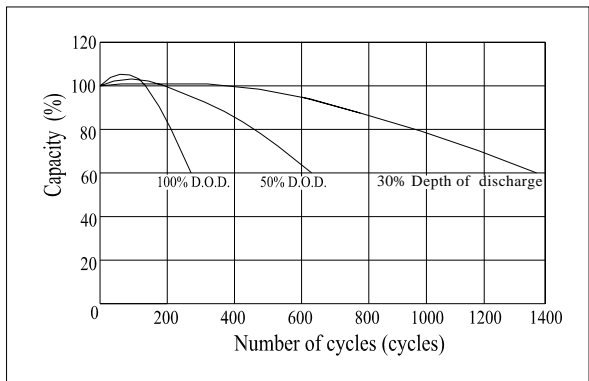
The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)



Charging Characteristics(25°C)