

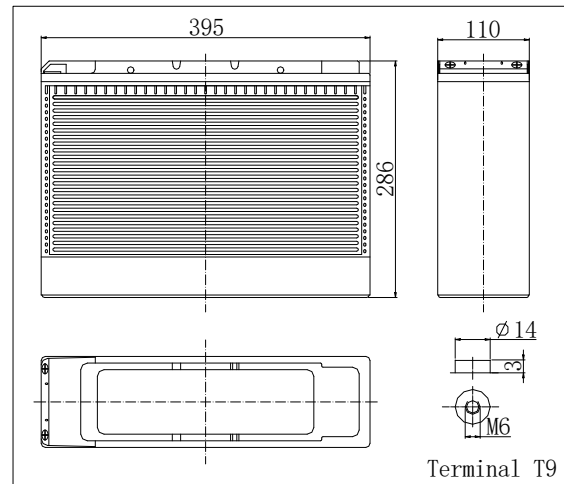
LFP12100AFTHT(12V100Ah)

Specifications

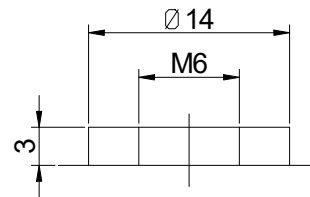
Nominal Voltage		12 V
Capacity (25°C)	10HR(10.8V)	100 Ah
	5HR(10.8V)	81.5 Ah
	1HR(9.60V)	58.3 Ah
Dimension	Length	395 ± 2mm (15.55inch)
	Width	110 ± 2mm (4.33inch)
	Height	286 ± 2mm (11.26inch)
	Total Height	286 ± 2mm (11.26inch)
Approx. Weight		31.0kg (68.2 lbs) ± 4%
Terminal type		T9/M6
Internal resistance (Fully charged, 35°C)		Approx. 6.5 mΩ
Capacity affected by temperature (10HR)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-discharge (35°C)	3 month	Remaining Capacity: 90%
	6 month	Remaining Capacity: 80%
	12 month	Remaining Capacity: 60%
Nominal operating temperature		25°C ~ 35°C (77°F ~ 95°F)
Operating temperature range	Discharge	-15°C ~ 70°C (5°F ~ 158°F)
	Charge	-10°C ~ 55°C (14°F ~ 131°F)
	Storage	-20°C ~ 70°C (-4°F ~ 158°F)
Float charging voltage(35°C)	13.40 to 13.60V Temperature compensation: -18mV/°C	
Equalization charge Voltage(35°C)	13.80 to 14.10V Temperature compensation: -18mV/°C	
Cyclic charging voltage(35°C)	14.20 to 14.40V Temperature compensation: -30mV/°C	
Maximum charging current	20A	
Terminal material	Copper	
Cycles Life(35°C)	1000cycles@80%DOD	
Designed floating life	14years@25°C	7 years@35°C

- ◆ Pure Gelled electrolyte technology;
- ◆ Pure lead & PVC separator & High Temperature
- ◆ Recognized by UL & CE & IEC60986
- ◆ ABS /U94 V0 Flame retardant container.

Dimensions



Terminal



Terminal T9

Constant Current Discharge Characteristics (A, 25°C)

F.V/TIME	5min	10min	15min	30min	60min	90min	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
9.60V	291	194	149	90.0	58.3	42.7	34.7	24.5	20.1	17.1	15.3	13.5	12.0	11.1	10.1	5.32
9.90V	281	188	145	88.0	57.4	42.3	34.5	24.3	20.0	17.0	15.2	13.5	11.9	11.0	10.1	5.31
10.2V	270	180	140	86.0	55.9	41.6	34.2	24.2	19.9	16.9	15.1	13.3	11.8	10.9	10.1	5.29
10.5V	257	172	135	83.3	54.9	40.9	33.7	24.0	19.7	16.8	15.0	13.3	11.7	10.9	10.0	5.26
10.8V	243	163	128	80.7	53.1	39.7	32.8	23.3	19.1	16.3	14.6	12.9	11.5	10.7	10.0	5.23

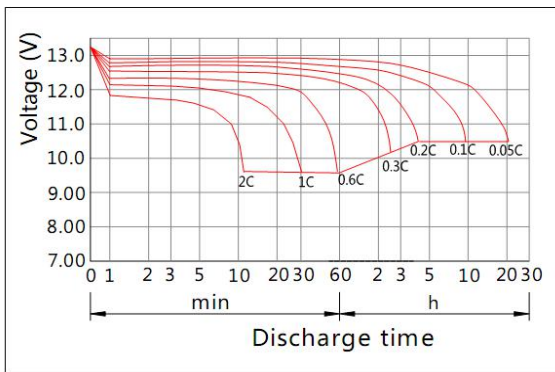
Constant Power Discharge Characteristics (Watt/cell, 25°C)

F.V/TIME	5min	10min	15min	30min	60min	90min	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
9.60V	531	355	272	169	111	82.1	67.1	48.0	39.4	33.7	30.2	26.8	23.7	21.9	20.1	10.6
9.90V	515	343	266	165	109	80.8	66.5	47.7	39.2	33.6	29.9	26.6	23.7	21.8	20.1	10.6
10.2V	494	330	256	160	107	79.6	65.9	47.4	38.8	33.3	29.7	26.4	23.4	21.6	20.0	10.6
10.5V	472	315	247	156	104	78.3	65.2	47.0	38.6	33.1	29.5	26.2	23.3	21.6	19.9	10.5
10.8V	445	297	234	151	101	76.5	63.3	45.6	37.4	32.1	28.6	25.4	22.5	21.2	19.8	10.5

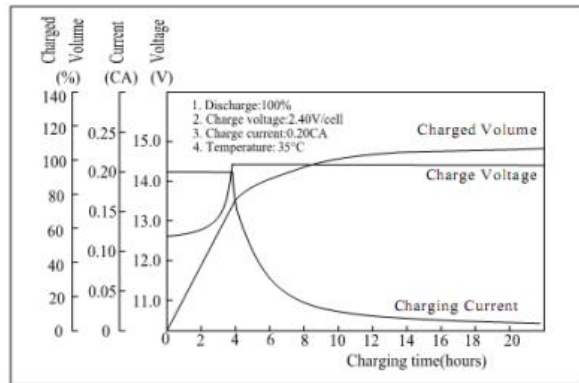
Note: The above characteristics data can be obtained within three charge/discharge cycles.

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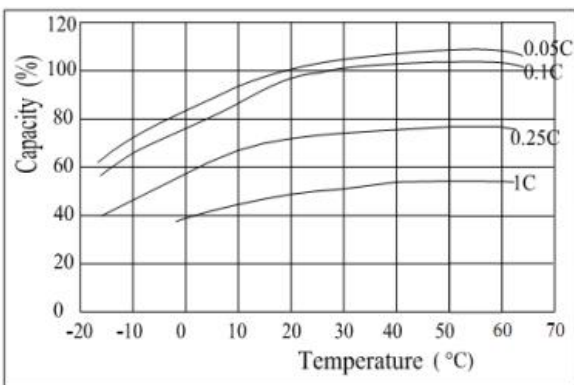
Discharge Characteristics(35°C)



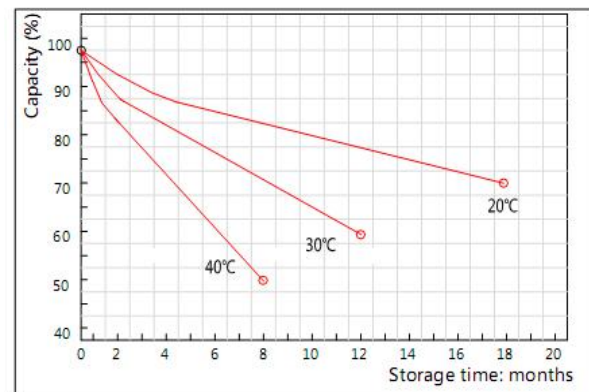
Charging Characteristics(35°C)



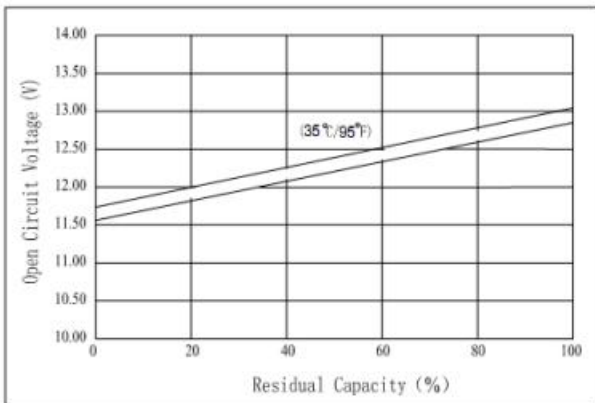
Effect of Temperature on Capacity



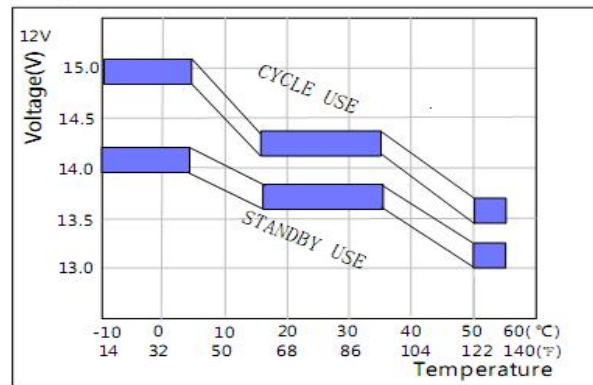
Self-discharge Characteristics



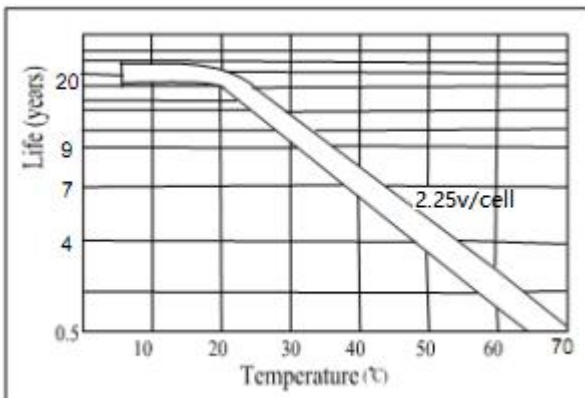
The Relationship for Open Circuit Voltage and Residual Capacity (35°C)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D.(35°C)

