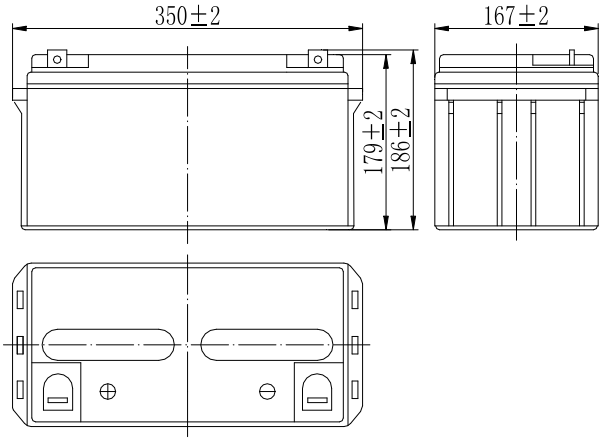
FirstPower Technology Co., Ltd. LFP1280(12V80Ah)

Specifications

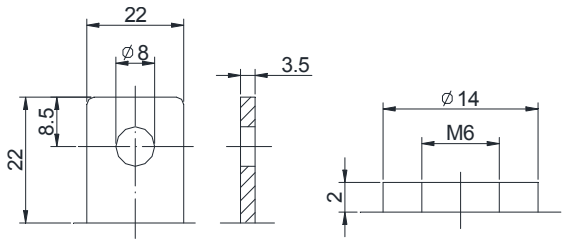
Nominal Voltage		12 V
Capacity (25℃)	20HR(10.5V)	80 Ah
	5HR(10.5V)	66.5Ah
	1HR(9.60V)	47.1Ah
Dimension	Length	350±2mm (13.78inch)
	Width	167±2mm (6.57inch)
	Height	179±2mm (7.05inch)
	Total Height	T5: 186±2mm (7.32inch)
		T9: 179±2mm (7.05inch)
Approx. Weight		22.0kg (48.5lbs)±4%
Terminal type		T5/T9
Internal resistance (Fully charged, 25℃)		Approx. 5.0mΩ
Capacity affected by temperature (10HR)	40℃	102%
	25℃	100%
	0℃	85%
	-15℃	65%
Self-discharge (25℃)	3 month	Remaining Capacity: 91%
	6 month	Remaining Capacity: 82%
	12 month	Remaining Capacity: 65%
Nominal operating temperature		25℃±3℃(77℉±5℉)
Operating temperature range	Discharge	-15℃～50℃(5℉～122℉)
	Charge	-10℃～50℃(14℉～122℉)
	Storage	-20℃～50℃(-4℉～122℉)
Float charging voltage(25℃)		13.50 to 13.80V Temperature compensation: -18mV/℃
Cyclic charging voltage(25℃)		14.50 to 14.90V Temperature compensation: -30mV/℃
Maximum charging current		24A
Terminal material		Copper
Maximum discharge current		800A(5 sec.)
Designed floating life(20℃)		12 years

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

Dimensions



Terminal



Terminal T5 Terminal T9

Constant Current Discharge Characteristics (A, 25℃)

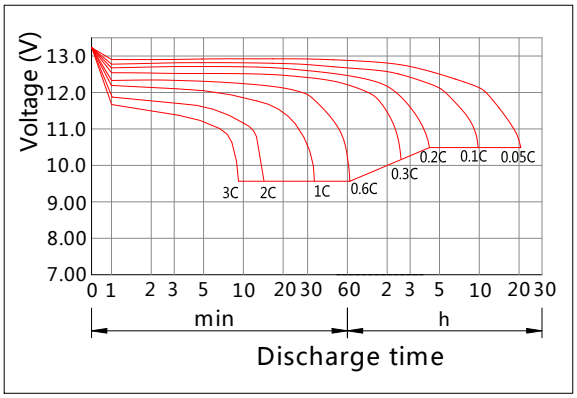
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h
9.60V	156	126	76	47.1	27.8	19.4	15.9	13.6	11.9	9.30	7.74	4.06
9.90V	151	123	74	46.4	27.6	19.3	15.8	13.5	11.8	9.25	7.72	4.05
10.2V	145	119	72	45.2	27.4	19.1	15.7	13.4	11.7	9.18	7.70	4.04
10.5V	139	115	70	44.3	26.9	19.0	15.6	13.3	11.6	9.12	7.65	4.00
10.8V	131	108	68	43.0	26.3	18.4	15.1	12.9	11.3	8.85	7.60	3.99

Constant Power Discharge Characteristics (Watt, 25℃)

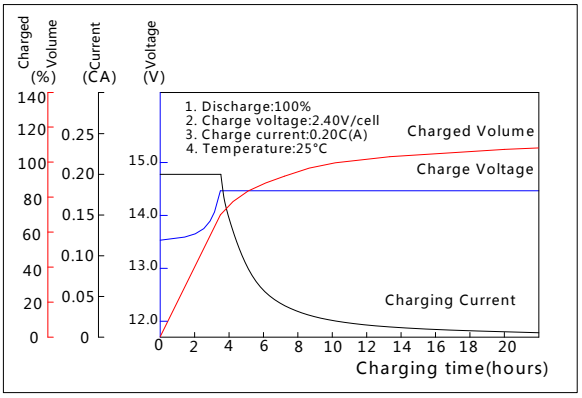
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h
9.60V	1683	1378	853	537	322	228	187	160	140	111	92.4	48.7
9.90V	1632	1345	836	529	320	227	186	159	139	110	92.2	48.6
10.2V	1565	1295	810	516	317	225	185	158	138	109	91.9	48.5
10.5V	1498	1251	790	505	312	223	183	157	137	108	91.4	48.2
10.8V	1413	1185	761	490	304	217	178	152	133	105	90.7	47.9

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

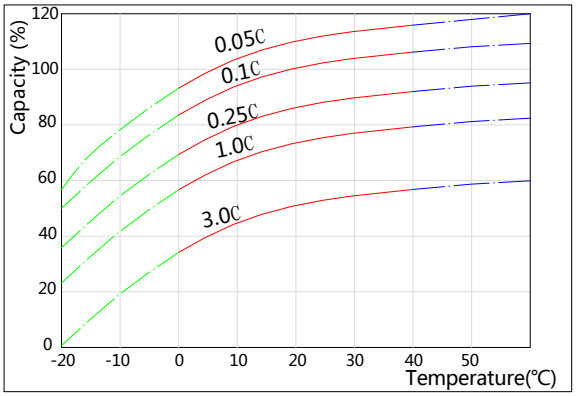
Discharge Characteristics(25℃)



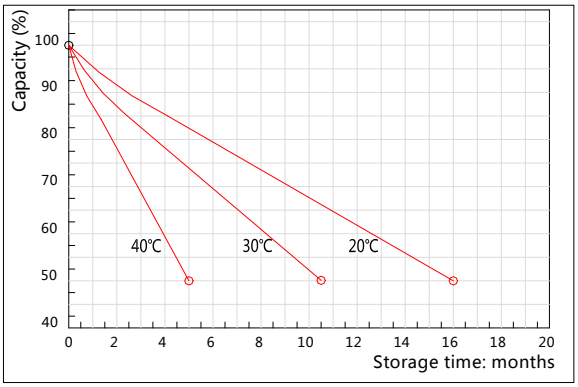
Charging Characteristics(25℃)



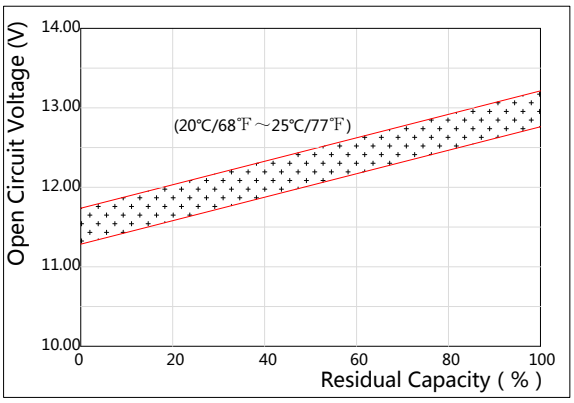
Effect of Temperature on Capacity



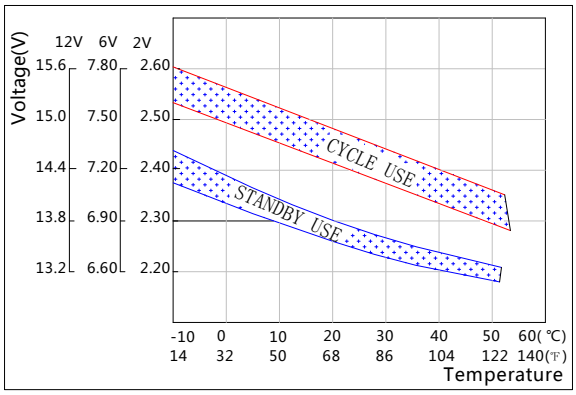
Self-discharge Characteristics



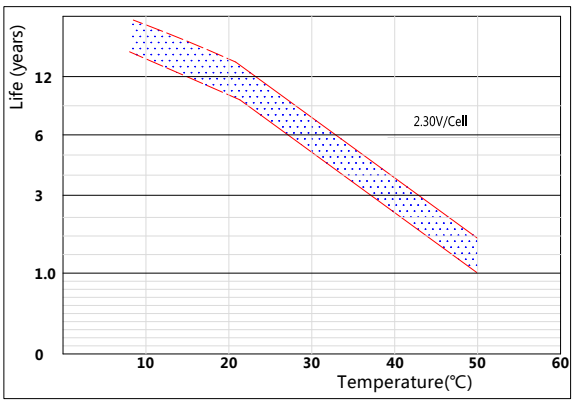
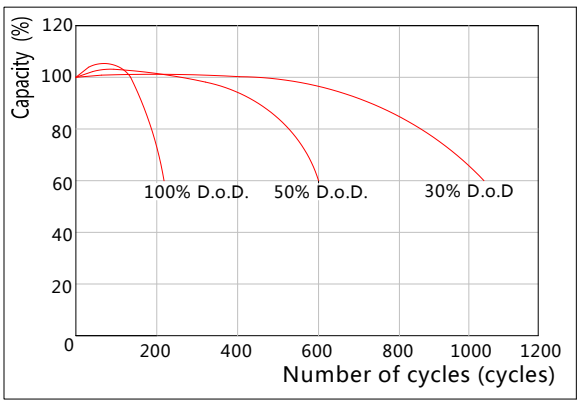
The Relationship for Open Circuit Voltage and Residual Capacity (25℃)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25℃)