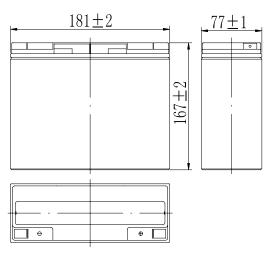
FirstPower Technology Co., Ltd.

Specifications

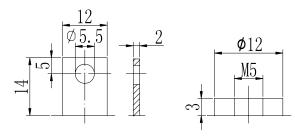
Specificatio						
Nominal	Voltage	12 V				
	20HR(10.5V)	20 Ah				
Capacity (25°C)	10HR(10.5V)	18.6Ah				
(23 C)	1HR(9.60V)	13.1Ah				
	Length	181±2mm (7.13inch)				
Dimension	Width	77±1mm (3.03inch)				
Difficusion	Height	167±2mm (6.57inch)				
	Total Height	167±2mm (6.57inch)				
Approx.	Weight	5.7kg (12.6lbs)±4%				
Termina	l type	T3/T8				
Internal re (Fully charg		Approx. 12m Ω				
Capacity	40℃	102%				
affected by	25℃	100%				
temperature	0℃	85%				
(20HR)	-15℃	65%				
0.10.11.1	3 month	Remaining Capacity: 91%				
Self-discharge (25°C)	6 month	Remaining Capacity: 82%				
	12 month	Remaining Capacity: 65%				
Nominal o		25°C ±3°C(77°F ±5°F)				
Operating	Discharge	-15°C~50°C(5°F~122°F)				
temperature	Charge	-10°C∼50°C(14°F∼122°F)				
range	Storage	-20°C ~50°C (-4°F ~122°F)				
Float charging v	voltage(25°C)	13.60 to 13.80V Temperature compensation: -18mV/°C				
Cyclic charging	voltage(25℃)	14.50 to 14.90V Temperature compensation: -30mV/°C				
Maximum char	ging current	6A				
Terminal i	material	Copper				
Maximum disc	harge current	300A(5 sec.)				
Designed floati	ng life(20℃)	3~5 years				

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

Dimensions



Terminal



Terminal T3

Terminal T8

Constant Current Discharge Characteristics (A. 25°C)

Companie Current Discharge Characteristics (11, 20 0)											
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	49.0	38.4	21.4	13.1	7.11	5.10	4.08	3.47	2.24	1.89	1.02
9.90V	47.5	37.5	21.0	12.9	7.06	5.07	4.06	3.45	2.23	1.88	1.01
10.2V	45.5	36.1	20.3	12.6	7.00	5.04	4.03	3.42	2.22	1.87	1.01
10.5V	43.6	34.8	19.8	12.4	6.90	5.00	4.00	3.40	2.20	1.86	1.00
10.8V	41.1	33.0	19.1	12.0	6.72	4.85	3.88	3.30	2.13	1.82	0.98

Constant Power Discharge Characteristics (Watt, 25°C)

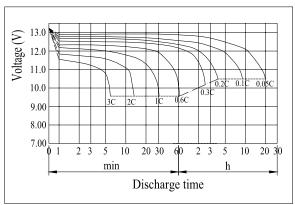
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	552	438	245	152	83.1	60.6	48.6	41.4	26.9	22.7	12.2
9.90V	536	427	240	150	82.6	60.2	48.3	41.2	26.8	22.6	12.1
10.2V	514	411	233	146	81.9	59.8	48.0	40.9	26.6	22.5	12.1
10.5V	492	397	227	143	80.7	59.4	47.6	40.6	26.4	22.3	12.0
10.8V	464	376	219	139	78.6	57.6	46.2	39.4	25.6	21.9	11.8

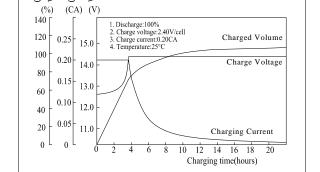
Note: The above characteristics data can be obtained within three charge/discharge cycles.

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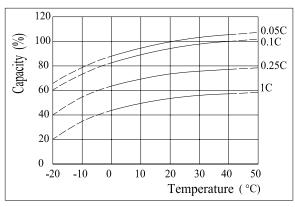
FP12200D(12V20Ah)

Discharge Characteristics(25°C)

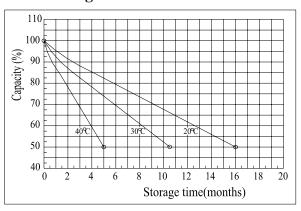




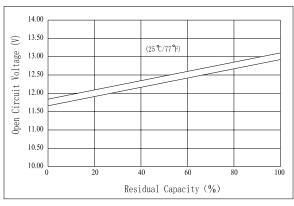
Effect of Temperature on Capacity



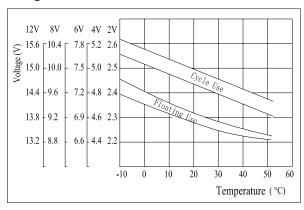
Self-discharge Characteristics



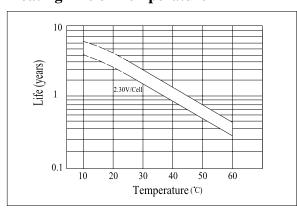
The Relationship for Open Circuit Voltage and Residual Capacity (25℃)



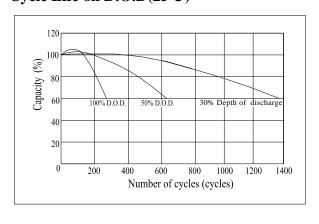
The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25℃)



Charging Characteristics(25℃)

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