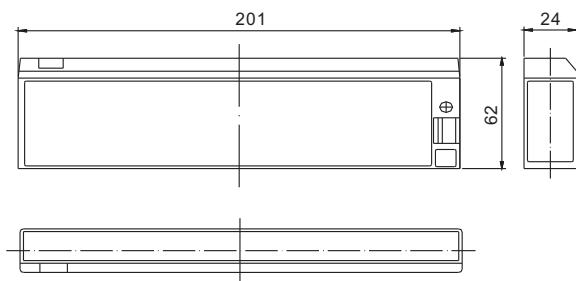


# Standard Series FP1223CA 12V2.0Ah

**FirstPower®**

## Dimension(mm)



**Tab**  
Terminal



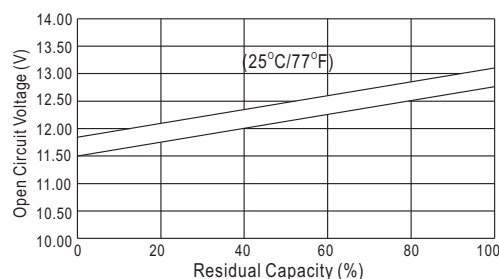
## Specification

Nominal Voltage		12 V
Capacity(20HR, 25°C)		2.0 Ah
Dimension	Length	201mm (7.91inch)
	Width	24mm (0.94inch)
	Height	62mm (2.44inch)
	Total Height	62mm (2.44inch)
Approx. Weight		0.72kg (1.60lbs)

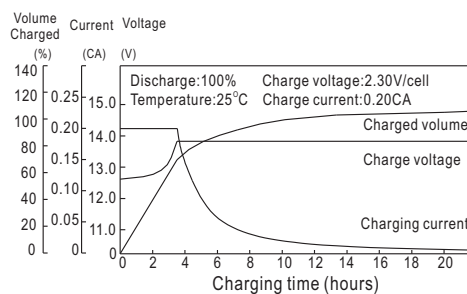
## Characteristics

Capacity 20°C (68□) To 1.70V/Cell	20 hour rate	2.0Ah
	10 hour rate	1.9Ah
	5 hour rate	1.7Ah
	1 hour rate	1.25Ah
	15 min rate	0.91Ah
Internal resistance(Fully charged, 25°C)		Approx. 120mΩ
Capacity affected by temperature (20HR)	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		-15°C~50°C(5°F~122°F)
Float charging voltage(25°C)		13.60 to 13.80V
Cyclic charging voltage(25°C)		14.50 to 14.90V
Maximum charging current		0.69A
Terminal material		Copper
Maximum discharge current		11.5A(5 Sec.)

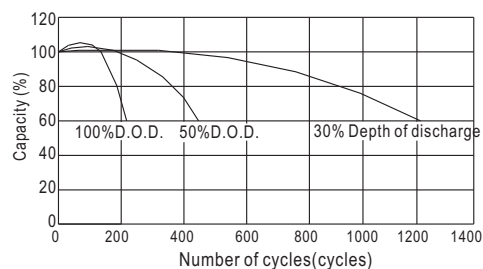
## The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



## Charging Characteristics(25°C)



## Cycle Life(25°C)



## Constant Current Discharge Characteristics (A, 25°C)

F.V/TIME	5min	10min	15min	30min	60min	3h	5h	10h	20h
9.60V	7.60	4.80	3.80	2.20	1.30	0.51	0.35	0.19	0.10
10.2V	7.22	4.56	3.65	2.11	1.25	0.50	0.34	0.19	0.10
10.8V	6.79	4.29	3.47	2.01	1.19	0.49	0.33	0.18	0.10

## Constant Power Discharge Characteristics (Watt, 25°C)

5min	10min	15min	30min	60min	3h	5h	10h	20h
84.8	54.1	43.3	25.2	15.1	6.03	4.12	2.24	1.22
80.6	51.4	41.6	24.2	14.5	5.94	4.06	2.22	1.21
75.7	48.4	39.5	23.0	13.7	5.82	3.98	2.22	1.20