

Room 302, Block C, Software Park, No. 89 Software Avenue,  
Gulou District, Fuzhou City, Fujian Province, China.

Tel: +86 178 5970 1902 Email: [sales@ecellbatteries.com](mailto:sales@ecellbatteries.com) Web: [www.ecellbatteries.com](http://www.ecellbatteries.com)

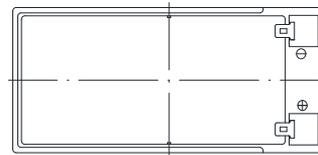
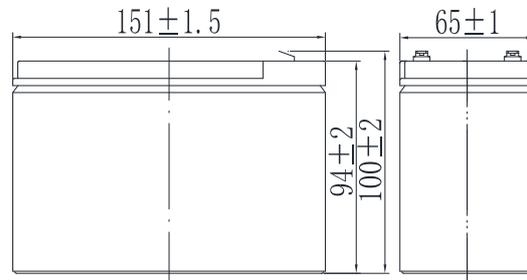
## EC12-7 (12V 7Ah)

### Specifications

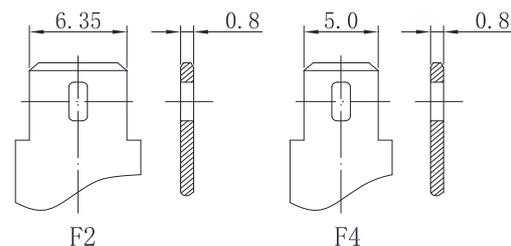
Nominal Voltage		12 V
Capacity (25°C)	20HR(10.5V)	7Ah
	10HR(10.5V)	6.5Ah
	1HR(9.60V)	4.5Ah
Dimension	Length	151 ± 1.5mm (5.94inch)
	Width	65 ± 1mm (2.56inch)
	Height	94 ± 2mm (3.70inch)
	Total Height	100 ± 2mm (3.94inch)
Approx. Weight		2.05kg (4.52lbs) ± 5%
Terminal type		F2/F4
Internal resistance (Fully charged, 25°C)		Approx. 30m Ω
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	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)		13.60 to 13.80V Temperature compensation: -18mV/°C
Cyclic charging voltage(25°C)		14.60 to 14.80V Temperature compensation: -30mV/°C
Maximum charging current		1.95A
Maximum discharge current		97.5A(5 sec.)
Designed floating life(20°C)		5 years



### Dimensions



### Terminal



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

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	26.7	16.9	13.2	7.46	4.59	2.51	1.74	1.44	1.22	0.66	0.36
9.90V	25.9	16.4	12.9	7.31	4.52	2.49	1.72	1.43	1.21	0.66	0.35
10.2V	24.9	15.8	12.4	7.08	4.40	2.47	1.71	1.42	1.21	0.66	0.35
10.5V	23.8	15.1	12.0	6.91	4.31	2.43	1.70	1.41	1.20	0.65	0.35
10.8V	22.5	14.2	11.4	6.66	4.18	2.37	1.65	1.36	1.16	0.64	0.34

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

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	298	191	151	85.4	53.1	29.3	20.6	17.1	14.6	7.95	4.26
9.90V	289	185	147	83.7	52.3	29.2	20.5	17.0	14.5	7.92	4.25
10.2V	278	178	142	81.2	51.0	28.9	20.3	16.9	14.4	7.88	4.23
10.5V	266	170	137	79.2	50.0	28.5	20.2	16.8	14.3	7.84	4.20
10.8V	251	161	130	76.3	48.4	27.8	19.6	16.3	13.9	7.68	4.12

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

Room 302, Block C, Software Park, No. 89 Software Avenue,  
Gulou District, Fuzhou City, Fujian Province, China.

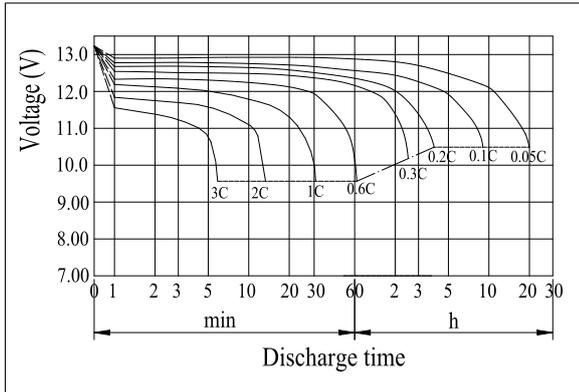
Tel: +86 178 5970 1902 Email: [sales@ecellbatteries.com](mailto:sales@ecellbatteries.com) Web: [www.ecellbatteries.com](http://www.ecellbatteries.com)

**EC12-7 (12V 7Ah)**

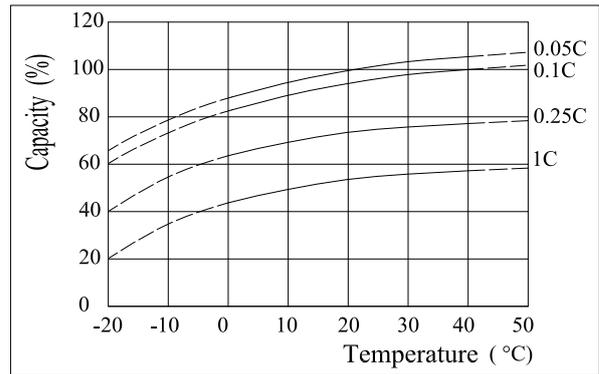
**Construction**

Component	Positive plate	Negative plate	Container	Cover	Separator	Electrolyte	Safety valve	Terminal
Raw material	Lead dioxide	Lead	ABS	ABS	AGM	Sulfuric acid	Rubber	Copper

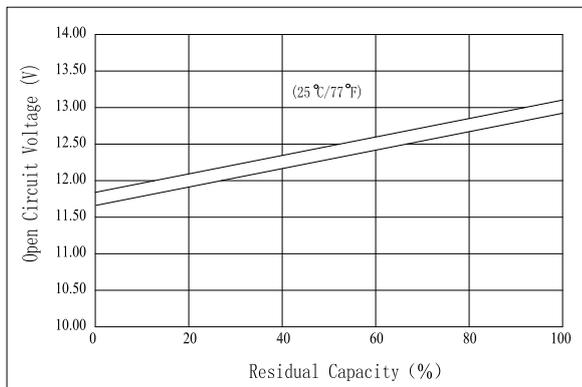
**Discharge Characteristics(25°C)**



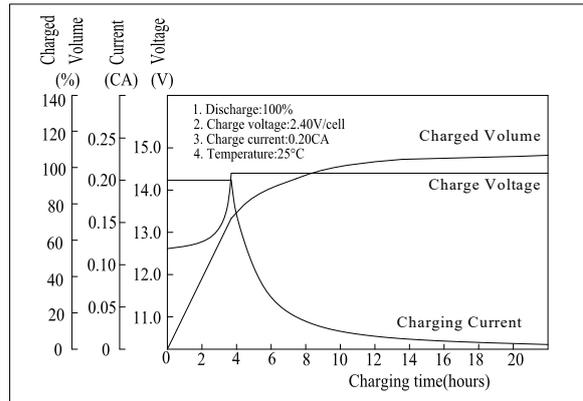
**Effect of Temperature on Capacity**



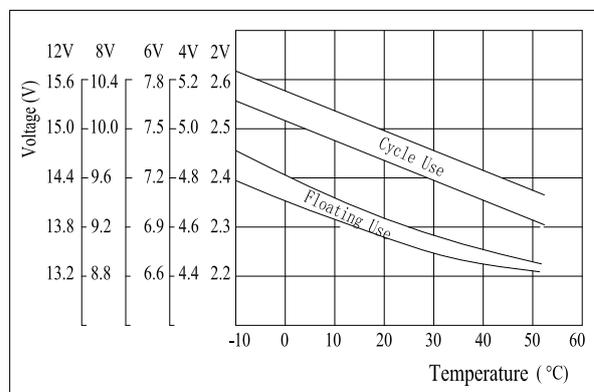
**The Relationship for Open Circuit Voltage and Residual Capacity (25°C)**



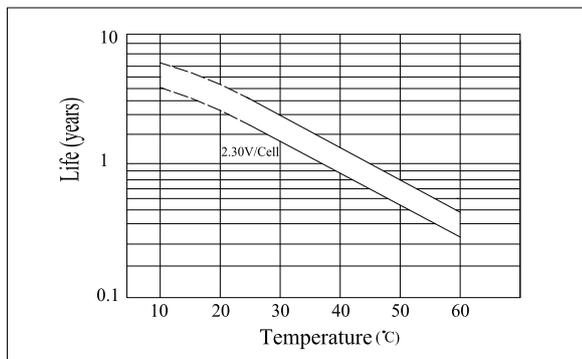
**Charging Characteristics(25°C)**



**The Relationship for Charging Voltage and Temperature**



**Floating Life on Temperature**

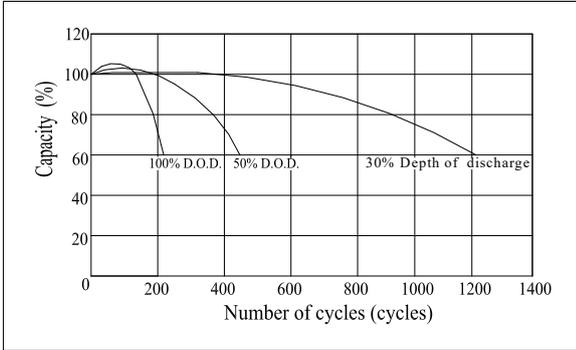


Room 302, Block C, Software Park, No. 89 Software Avenue,  
Gulou District, Fuzhou City, Fujian Province, China.

Tel: +86 178 5970 1902 Email: [sales@ecellbatteries.com](mailto:sales@ecellbatteries.com) Web: [www.ecellbatteries.com](http://www.ecellbatteries.com)

**EC12-7 (12V 7Ah)**

**Cycle Life on D.O.D(25°C)**



**Self-discharge Characteristics**

