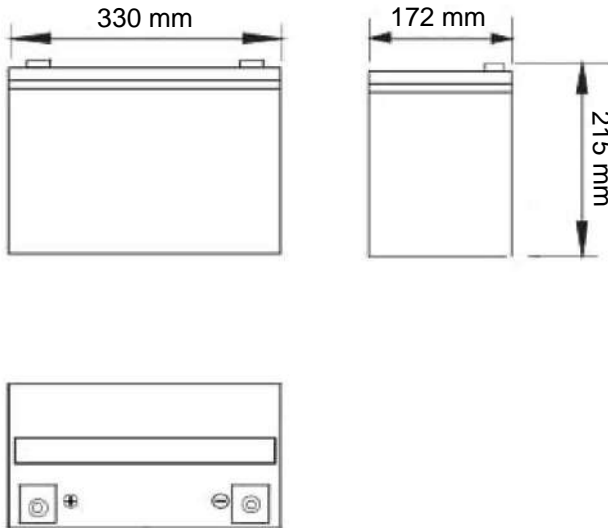


## (VRLA) GEL Battery

Valve Regulated Lead Acid Battery

### JXH 100-12G

#### Dimension



#### Specification

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>✎ Nominal Voltage : 12V</li> <li>✎ Dimension           <ul style="list-style-type: none"> <li>Length : 330 mm</li> <li>Width : 172 mm</li> <li>Overall Height : 215 mm</li> </ul> </li> <li>✎ Weight ( Approx. ) : 30 Kg</li> <li>✎ Nominal Capacity : 100 AH / 20HR ( 25°C )</li> <li>✎ Internal Resistance(Approx.) : &lt; 5.5 mΩ</li> <li>✎ Float Charging : 2.27 ~ 2.28 vpc ( 25°C )</li> <li>✎ Cycle Charging : 2.35 ~ 2.4 vpc ( 25°C )</li> <li>✎ Terminal :           <ul style="list-style-type: none"> <li>Top terminal : Bolt M8</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>✎ Operating Temperature Range           <ul style="list-style-type: none"> <li>Discharging -15°C to 45°C</li> <li>Charging -15°C to 45°C</li> <li>Storage -15°C to 45°C</li> </ul> </li> <li>✎ Cyclic: 500-3000 charge/discharge (refer to cyclic curve)</li> <li>✎ Expected float use life ( 20°C ) : 10 Years</li> <li>✎ Easy Maintenance           <ul style="list-style-type: none"> <li>No electrolyte leakage</li> <li>Ensure safe and efficient operation</li> </ul> </li> <li>✎ Container Material : ABS</li> <li>✎ Applications :           <ul style="list-style-type: none"> <li>UPS (Uninterruptible Power Supply),</li> <li>Telecommunications, Emergency Lighting, Alarm</li> <li>Systems, Solar Powered Systems, Alternative</li> <li>Energy Storage, Solar Street Lights,</li> <li>General Applications</li> </ul> </li> </ul> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Constant Current Discharge Characteristics Unit:A(25°C,77°F)

F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	218	168	101	61.8	36.5	26.3	21.0	18.0	12.3	10.2	5.40
9.90V	211	164	98.5	60.9	36.3	26.2	20.9	17.8	12.3	10.2	5.38
10.2V	203	158	95.5	59.3	36.0	26.0	20.7	17.7	12.2	10.1	5.37
10.5V	194	153	93.2	57.5	35.5	25.8	20.6	17.6	12.1	10.1	5.34
10.8V	183	144	89.7	55.6	34.6	25.0	20.0	17.1	11.7	10.0	5.30

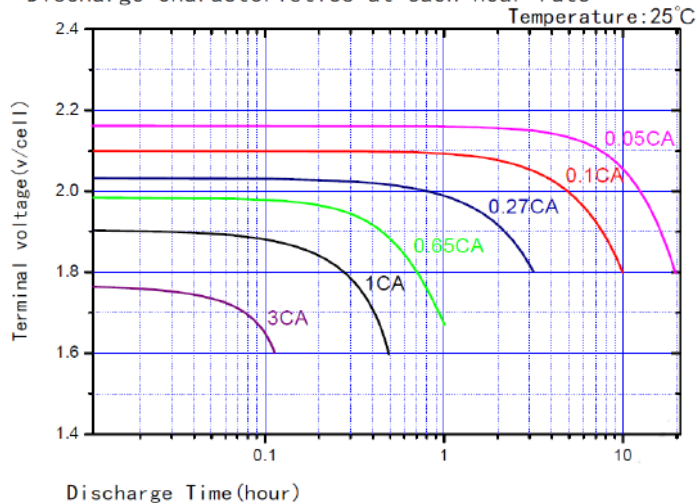
## Constant Power Discharge Characteristics Unit:W(25°C,77°F)

F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	2354	1845	1128	705	423	309	247	212	147	122	64.7
9.90V	2284	1800	1105	694	421	308	246	211	146	121	64.6
10.2V	2190	1734	1071	676	417	306	244	209	145	121	64.4
10.5V	2095	1675	1045	655	411	303	242	208	144	120	64.0
10.8V	1978	1586	1007	634	400	294	235	202	139	119	63.6

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

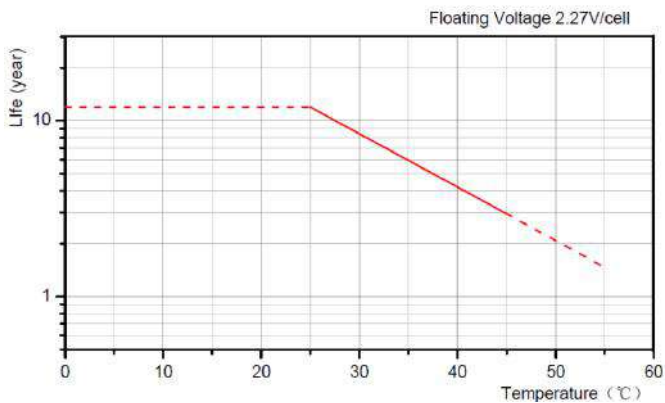
### Characteristics

Discharge characteristics at each hour rate



Battery Float Charging (Temperature compensation)	
Temperature °C	Float Charge Volt/Cell
5	2.31
10	2.29
15	2.28
20	2.27
25	2.27
30	2.25
35	2.23

### LIFE TIME VS TEMPERATURE



### DISCHARGE DEPTH VS CYCLE TIME CURVE

