



# General VRLA Battery

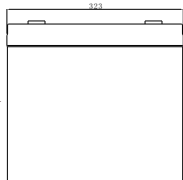
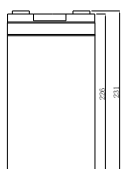
## 3FM220G (6V220Ah)

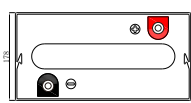

The LONGWAY General Series middle batteries ( more than 24Ah) are designed and developed using AGM technology and valve controlled sealing technology. They can meet conventional performance requirements, with a designed float charging life of over 8 years. The valve controlled non-spillable structure design allows safe use in any direction and is certified by sea and air freight. The battery performance also meets international standards. such as IEC60896-2012, UL1989.etc.



General Feature	Applications
<ul style="list-style-type: none"> <li>High reliability, safe without leakage, can be used in any position</li> <li>Excellent recovery performance after deep discharge</li> <li>Environmentally friendly products. Meet EU battery directive RoHS and REACH standards</li> <li>Maintenance free</li> <li>Widely applicable temperature range, can be used at -20 °C~60°C</li> <li>Low self-discharge rate. The average monthly self-discharge rate of the battery is less than 2.5% (It is recommended to recharge after storage for 6 months or before use)</li> </ul>	<ul style="list-style-type: none"> <li>Emergency lights; Alarm system</li> <li>Electrical test equipment; communication Equipment</li> <li>Uninterruptible power supply; Fire &amp; Security</li> <li>Electric toys; Control instruments</li> <li>Portable Movie &amp; Video lights</li> <li>Electric tools; Solar system</li> <li>Robots and control machines and other</li> </ul>




Performance	Dimensions
Nominal Voltage	6V (3cells)
Capacity	@25°C
10hr Rate (22.0A)	220 Ah @ to 1.75V/cell
5hr Rate (37.4A)	187 Ah @ to 1.70V/cell
3hr Rate (55.0 A)	165 Ah @ to 1.60V/cell
Weight	Approx (31.5±3%)kg ( 69.44lbs )
Internal Resistance	Approx 1.00mΩ fully charged @25°C
Maximum Discharge Current	400A(3sec)
Terminal	I6-1
Operating Temperature Range	Discharge:-20°C~60°C; Charge:0°C~50°C Storage:-20°C~40°C
Container Material	ABS(UL94 HB)/UL94-V0 Optional

Length	323mm	12.72inch
Width	178mm	7.01inch
Height	226mm	8.90inch
Total height	231mm	9.09inch

Battery use
<b>Cycle use</b> <ol style="list-style-type: none"> <li>Limit the initial charging current to no more than 50A</li> <li>Keep charging voltage at 7.20-7.50V/unit.and continue charging at least 3 hours after the charging current reduces to 4.0A to ensure full charge</li> <li>The compensation coefficient of charging voltage and temperature is -5mv/cell/°C</li> </ol>
<b>Float use</b> <ol style="list-style-type: none"> <li>Limit the initial charging current to no more than 50A</li> <li>Keep charging voltage at 6.75-6.90V/unit.When the voltage reaches the constant voltage,the current gradually decreases until the battery is fully charged and continues to charge</li> <li>The compensation coefficient of charging voltage and temperature is -3mv/cell/°C</li> </ol>

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KY-IOP-LW6-220 B0. May 2023

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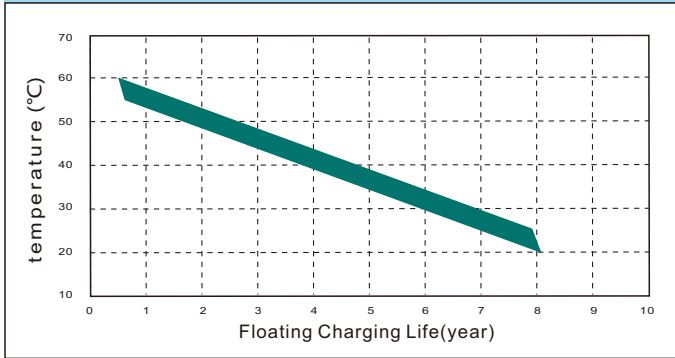
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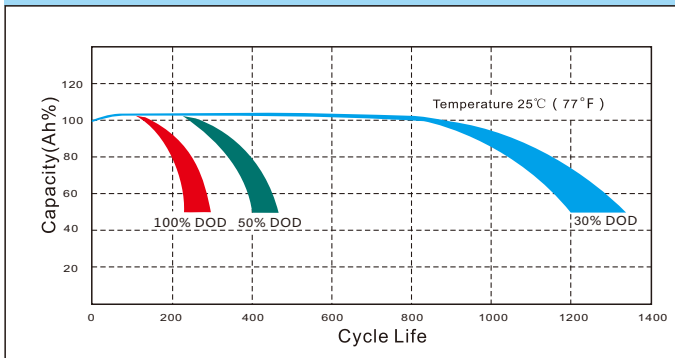
### Floating Charging Life VS Temperature



### Floating Charging Characteristics Diagram



### Cycle Life



### Cycle charging characteristic diagram



### Temperature and capacity characteristics



### Self-discharge characteristic



### Constant current characteristics(A,25°C )

F.V/TIME	5min	10min	15min	30min	60min	90min	2h	3h	5h	10h	20h
4.80	605.0	506.0	385.0	226.6	123	80.4	58.1	39.1	24.6	22.3	12.3
4.95	586.9	490.8	373.5	219.8	119.5	79.6	57.5	38.7	24.4	22.2	12.2
5.10	574.8	480.7	369.6	217.5	118.3	79.2	57.2	38.5	24.3	22.1	12.2
5.25	556.6	465.5	354.2	208.5	113.3	78.4	56.6	38.1	24.2	22.0	12.1
5.40	540.3	451.9	351.1	206.7	112.4	77.6	56.1	37.7	24.2	22.0	12.1

### Constant power discharge characteristic ( W,25°C )

F.V/TIME	5min	10min	15min	30min	60min	90min	2h	3h	5h	10h	20h
4.80	3376	2854	2195	1298	713	470.3	344.9	233.3	147.4	134.0	73.7
4.95	3275	2768	2129	1259	692	465.6	341.5	231.0	146.7	133.3	73.3
5.10	3207	2711	2107	1246	685	463.3	339.8	229.8	146.1	132.8	73.0
5.25	3106	2626	2019	1195	656	458.7	336.4	227.5	145.5	132.3	72.7
5.40	3015	2548	2001	1184	651	454.1	333.0	225.2	145.2	132.0	72.6



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