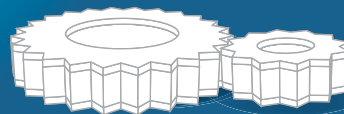


6-FMX

Series Front-Access
VRLA Battery



shoto

power the future





1. Introduction

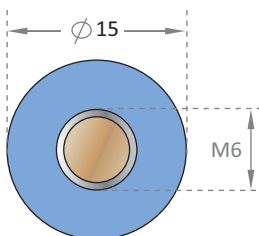
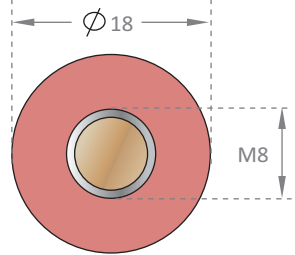
6-FMX front-access valve-regulated lead-acid battery of Shoto brand is designed for the service with high requirements. Since its grid is made of special multi-element alloy, the cell has a longer deep cycle life and a better discharge performance being a preferential solution for high-class UPS. this series is of a narrow and long structure with a proportion of length to width up to 3.59~5.00, therefore it has an excellent performance in heat dissipation reducing greatly the possible thermal runaway. With the front terminal designed for the connection with external circuit and the availability of different connection bars, the battery can be mounted and dismantled easily and quickly lowering the cost of maintenance. The product is suitable for service in telecom, UPS, power plant, transformer substation, control system, microwave relay station, remote sensing device, energy storage of solar/wind power generator.

2. Product Characteristics

- Output terminal of low resistance: a copper core is inlaid in terminal, connected through bolt, easy for installation;
- Perfect sealing of post: unique structure of triple sealing (patent: ZL 02 2 20024.X) to totally prevent the acid leakage;
- Safety valve(patent: ZL 00 2 41118.0): with reliable and stable open and close pressure;
- Grid (patent: ZL 01 2 72477.7): is made of special multi-element alloy to ensure the long life of the battery;
- Advanced case and lid heat sealing technology(patent: ZL 02 2 19847.4) to ensure the reliable seal of the battery;
- Battery case (patent: ZL02333602.,ZL02333603.X): is made of high-strength ABS to effectively ensure the vibration proof of the battery;
- Separator : is made of low-resistance ultra-fine fiberglass(patent: ZL 01 1 27020.9) to ensure gas recombination efficiency reaches above 99%;
- Handle is mounted on all cells for easy handling.

3. Specifications and Type

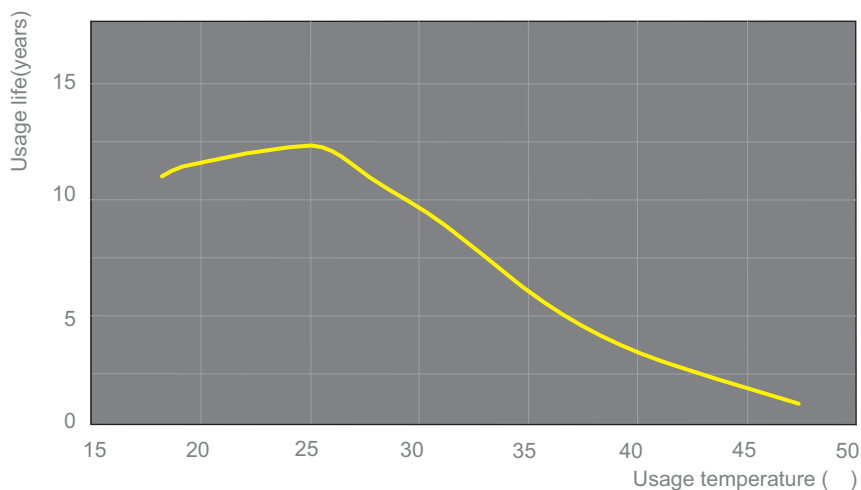
Type	Rated Voltage (V)	Rated capacity (Ah)	Outer sizes (mm)			Internal resistance (mΩ)	Short current (A)	Weight (Kg)
			L	W	H			
6-FMX-50	12	50	390	105	200	5.60	1653	21
6-FMX-80	12	80	395	105	270	5.12	1904	26
6-FMX-100A	12	100	520	110	254	4.62	2258	38
6-FMX-100B	12	100	395	110	286	5.00	2086	33
6-FMX-100C	12	100	559	125	227	4.65	2278	37
6-FMX-150A	12	150	559	125	310	4.13	3145	55
6-FMX-150B	12	150	550	110	310	4.48	2942	50

Model	Terminal type	Model	Terminal type
6-FMX-50 6-FMX-80 6-FMX-100A 6-FMX-100B 6-FMX-150B		6-FMX-100C 6-FMX-150A	

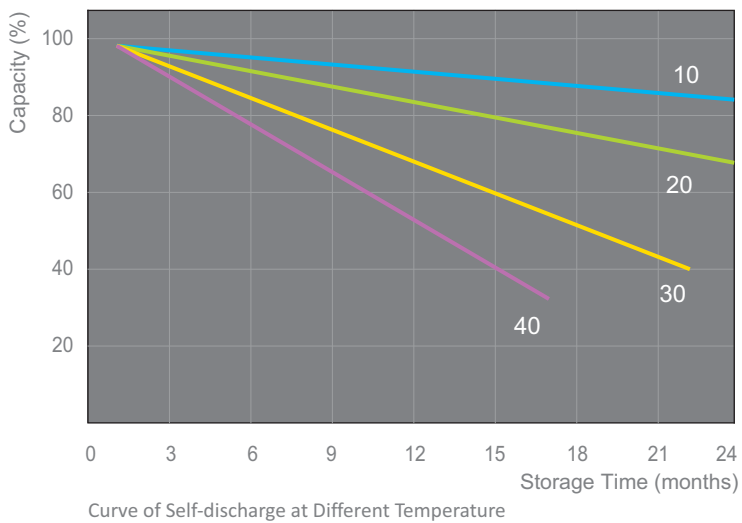
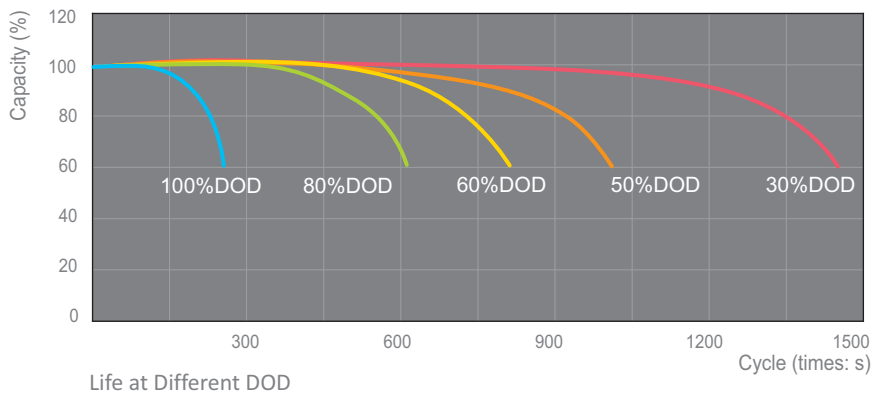
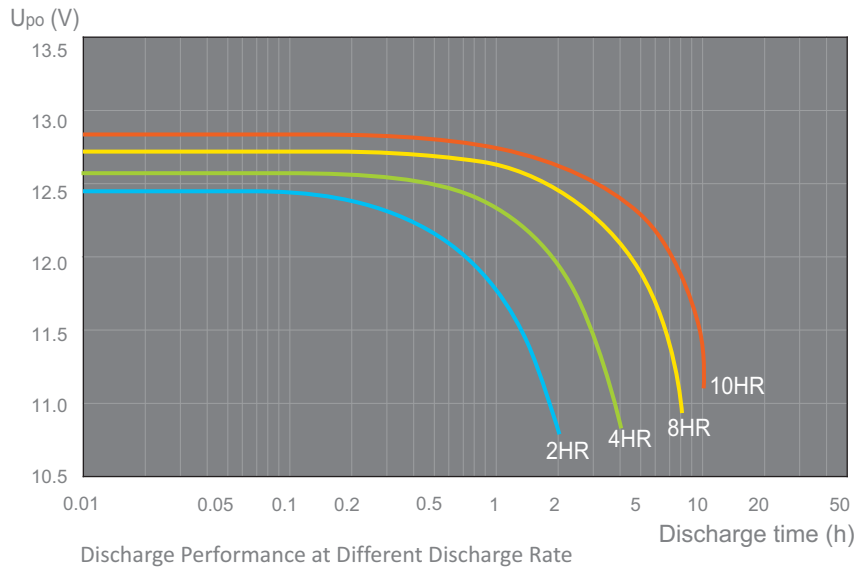
4. Main Technical Specifications

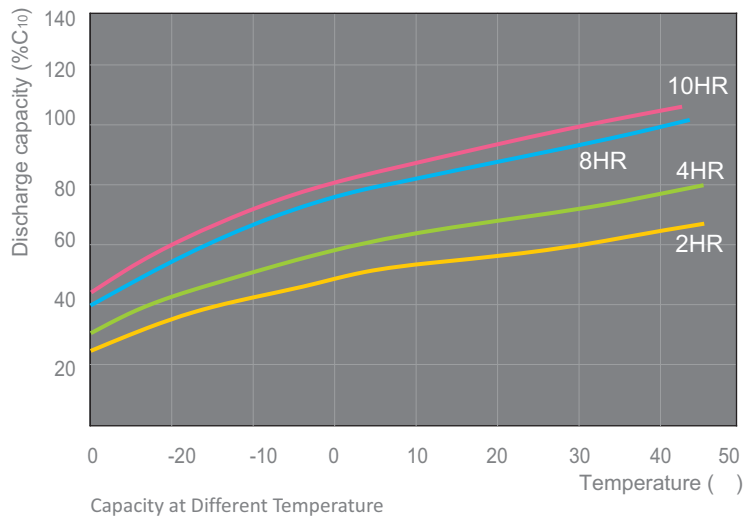
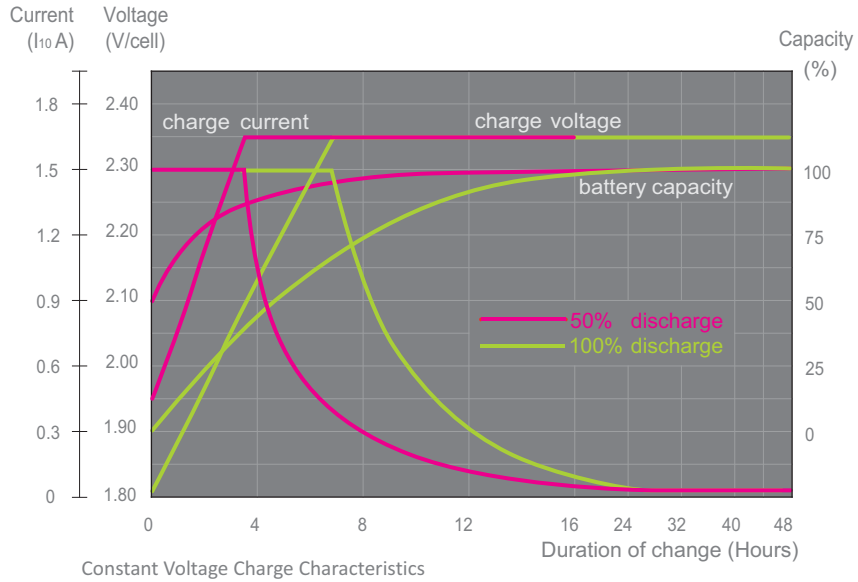
- Designed service life is 12-- year under 25 °C in standard applicaton;
- No leakage and no acid smog spray during the operation, no need to add acid or water;
- Self-discharge is under 4% (at 25 °C, 28 days)
- Ambient operating temperature: -15 °C ~+45 °C ;
- Recombination efficiency: >96%.

5. Main Performance Curves



Expected Life V.S Operating Temperature





all data and specifications are subject to change without notice.

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