

6-GFMJ Series



Technical features:

- Designed service life of 15 years
- High cycle service life
- Wider temperature range
- Excellent deep cycle performance
- Excellent high rate discharge performance
- Stronger constant power discharge capability
- Better charge acceptance capability
- Better safety performance and reliability
- Performance/price ratio is high and yearly operating cost is low
- Environment protection and energy saving

Product Structure Features

- Electrolyte: The primary material is gas silicon dioxide from Germany. The active material of positive/negative plate can react evenly and sufficiently because of the thin sol state electrolyte filling all the space of the battery initially. Battery working under high temperature and over-charged can avoid dry up via the flooded electrolyte design. Thermal runaway can be avoided for the higher thermal capacity and the better heat-elimination performance. The electrolyte which is the gel state in the finished battery is no leakage and delaminating phenomenon.
- Plate: Both positive plate and negative plate adopt pasted plate. The positive plate frame is molded with multi-component alloy. Multi-component alloy has especial crystal particle, better corrosion-proof performance and longer service life. Negative plate adopts pasted plate with radiated structure which improves utilization ratio of active substance, high current discharge performance and charge acceptance performance.
- Cover and container: Cover and container made of ABS and advanced heat-sealing technology improve battery intensity, safety and stability.
- Separator: Battery equipped with micro-pore PVC-SiO₂ separator

from Europe AMER-SIL Company has low internal resistance and larger electrolyte storage space.

•Terminal sealing: The terminals are made of copper cores with large diameter, so the terminals have large current-carrying capacity and low internal resistance. The unique double sealing structure of terminal post can effectively avoid leakage, to guarantee reliability of terminal post sealing.

•Safety valve: The safety valve with constant open/close pressure from Germany technology can prevent the electrolyte dry-out.

Main Application

- Backup power for telecom, mobile, network, railway
- Solar energy storage systems
- Wind power energy storage systems
- Information industry
- UPS, medical facility, emergency lighting
- Street lamp, cable TV

•High energy/environment friendly requirement situation

Compliant standards

- IEC 60896-21/22
- EN 61427
- CE
- UL
- ISO9001
- ISO14001
- GB/T 28001(OHSAS18001)

Product characteristics

- Recommended float charge voltage:2.25V/cell at 25°C (77 °F)
- Recommended boost charge voltage:2.35V/cell at 25°C (77 °F)
- Self-discharge : ≤ 20% (at 25°C , 180 days)
- Max charge current: 0.15C
- Wide operating temperature range: -20°C ~ 55°C
- Valve regulated system, no water addition needed
- Container material: ABS
- Terminal type: M8

Shoto 6-GFMJ series battery specification

Type	Rated voltage (V)	C ₁₀ rated capacity (Ah)	Dimensions(mm)				Weight (Kg)
			Length	Width	Height	Total Height	
6-GFMJ-65	12	65	353	175	214	224	29.5
6-GFMJ-85	12	85	418	175	214	224	35.0
6-GFMJ-100	12	100	513	164	214	224	42.0
6-GFMJ-120	12	120	513	229	214	224	49.5
6-GFMJ-150	12	150	513	229	214	224	61.0
6-GFMJ-200	12	200	513	294	214	224	77.5