

6-GFMJ-65 12V gel battery



Application

- Telecom
- Switching power supply
- CATV
- Oil and gas
- UPS, medical facilities
- Solar energy
- Street lamp
- Other situation with normal application

Features of performance application

- 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 acceptability
- Better safety performance and reliability
- High Performance/price ratio and low yearly
- ♣ Environment protection and energy saving

Rated voltage	12 V
Capacity@ 25°C(77°F)	65Ah @ 10hr to 10.8V
Weight	About 30.5kg (67.1 lb)
Reference internal	About $4.48 \text{m}\Omega @ 25^{\circ}\text{C}(77^{\circ}\text{F})$
resistance (charged) Short-circuit current	About 2679A (0.1S reference value)
Max discharge current	195A (5sec)
Self-discharge	< 20% 180 days @ 25°C (77°F)
Temperature range	Application: $-20^{\circ}\text{C} \sim 50^{\circ}\text{C}(-4^{\circ}\text{F} \sim 122^{\circ}\text{F})$ Storage: $5^{\circ}\text{C} \sim 40^{\circ}\text{C}(41^{\circ}\text{F} \sim 104^{\circ}\text{F})$ Recommendation: $20^{\circ}\text{C} \sim 30^{\circ}\text{C}(68^{\circ}\text{F} \sim 86^{\circ}\text{F})$
Max charge current	10A
Charge voltage @ 25°C(77°F)	Float charge: 13.5V, average charge: 14.1V Temperature compensation factor: -18 mV/°C
Terminal output	M8 copper terminal (HPb59-1)
Recharge tine	See figure 2

Execution standard:

IEC60896-21/22 BS EN 61427-2002 Q/321284KCC 03-2006 YD/T 1360 Authentication and certificate: Certificate of Qualification on Perfecting

Measurement & Measuring System
GB/T19022 ISO10012:2003、IDT

Quality Management System Authentication GB/T19001 **NO.**03006Q10002R0M-2

Environmental Management System Authentication

ISO 14001 **NO.**010607E2024R1M-2

Occupational Health Management System Authentication

 $GB/T28001 \; \textbf{NO.} 010607S10147R0M-2$

Product authentication:

YD/T1360 NO.030074640566R1M

CE authentication

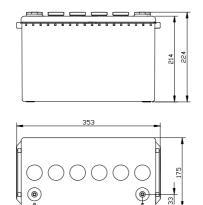
EN 61000-6-3:2001+A11:2004

EN 61000-6-1:2001

National Industrial Product Production License

XK06-044-00012

Product Quality Test Free Certificate





Structure feature of Shuangdeng 12V gel battery

- Electrolyte: primary material adopts Germany gas silicon dioxide, and special technology is adopted; the material will be the thin collosol state when it's injected initially, and the material will be gel state in finished battery, accordingly, leakage and lamination are avoided.
- Plate: both positive plate and negative plate adopt pasted plate, the distance is shorter, the strong current discharging capability is strong; the grid is composed of multi-component alloy whose hydrogen evolution potential is higher, the corrosion resistance is fine and service life is long; the utilization rate of active substance is high and charge receptivity is strong.
- > Battery case lid: made of ABS material, corrosion is prevented, strength is high and appearance is beautiful. The case lid is sealed by hot-melting, reliability is high and potential leakage risk can be prevented.
- Separator: adopt special micro-pore PVC-SiO2 separator from Europe AMER-SIL Company, the porosity of separator is big and resistance is low. It has bigger electrolyte storage space.
- > Terminal sealing: the built-in copper core lead-base terminal post has stronger current carrying capacity and corrosion resistance. The unique double sealing structure of terminal post can effectively avoid leakage, to guarantee reliability of terminal post sealing.
- Safety valve: adopt Germany technology, constant opening and closing valve, high reliability, the accumulator case expansion, damage and electrolyte dry up can be avoided.

Discharge current at different final voltages and different discharge rates unit: A $(25^{\circ}\text{C}, 77^{\circ}\text{F})$

	5min	10min	15min	30min	45min	1hr	1.5hr	2hr	3hr	4hr	5hr	8 hr	10 hr	20hr	100 hr	120hr
11.4	133.4	81.6	77.8	44.9	39.5	31.5	22.8	18.9	14.0	10.6	9.7	6.5	5.6	3.08	0.79	0.66
11.1	148.2	90.6	86.5	49.9	43.8	35.1	25.3	21.0	15.4	11.7	10.7	7.2	6.2	3.38	0.84	0.70
10.8	156	95.4	91.0	52.5	46.2	36.9	26.7	22.1	16.4	12.4	11.3	7.6	6.5	3.54	0.86	0.72
10.5	164	100	95.6	55.1	48.5	38.7	28.0	23.2	17.3	13.0	11.9	8.0	6.8	3.68	0.88	0.74

Discharge power at different final voltages and different discharge rates unit: W (25°C, 77°F)

	5min	10min	15min	30min	45min	1hr	1.5hr	2hr	3hr	4hr	5hr	8 hr	10 hr	20hr	100 hr	120hr
11.4	1078	854	572	532	393	310	292	242	174	135	124	83	71	36.96	9.48	7.92
11.1	1352	1070	716	667	493	388	319	265	191	148	135	91	78	40.15	9.98	8.32
10.8	1609	1274	853	794	587	462	330	274	198	153	140	94	81	41.63	10.23	8.47
10.5	1882	1465	922	835	623	493	347	288	209	161	147	99	85	42.61	10.31	8.57



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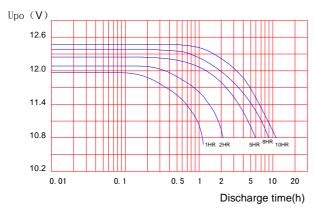


Figure 1 Discharge characteristic curve (20°C)

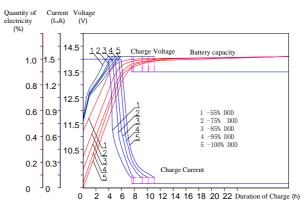


Figure 2 Constant voltage charge characteristic curve

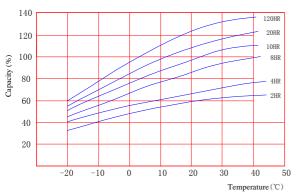


Figure 3 Relation curves between capacity and temperature

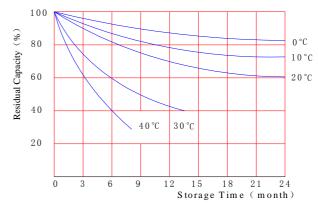


Figure 4 Self-discharge characteristic curve

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