



# 3-GFX-250 6V 5 OPzS 250



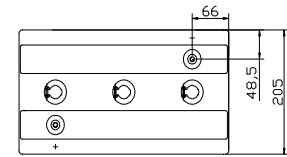
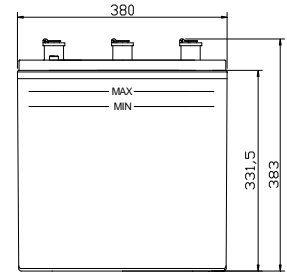
### Application:

- Solar and wind power system
- Electric power, nuclear power
- Telecommunication
- UPS
- Situation with high environmental protection and energy-saving

### Features of performance application

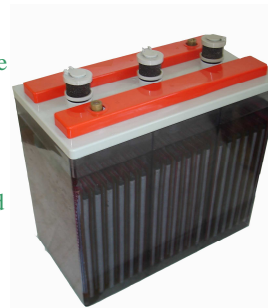
- Designed service life of 18 years
- Water supplement cycle 0.25-1 year (normal) 1-2 year (choose water content recombination valve)
- High cycle service life
- Better temperature resistance performance
- Excellent deep cycle performance
- Superior low current discharge performance
- Better charge reception capability
- Better safety performance and reliability
- Modular and personified installation design
- Performance/price ratio is high and yearly operating cost is low
- Environmental friendly, cycle application

Rated voltage	6 V
Capacity@ 25°C(77°F)	250Ah @ 10hr to 5.4V
Weight	Without electrolyte: about 45.0 kg ( 99.0 lb) With electrolyte: about 59.0kg ( 129.8 lb)
electrolyte density (charged)	1.240±0.01g/cm <sup>3</sup> (20°C) (68°F)
Reference internal resistance (charged)	About 2.1mΩ@ 25°C(77°F)
Short-circuit current	About 2857A (0.1S reference value)
Max discharge current	750A (5sec)
Self-discharge	< 10% 90 days @ 25°C (77°F)
Temperature range	Application: -20°C~50°C(-4°F~122°F) Storage: 0°C~20°C(32°F~68°F) Recommendation: 20°C~25°C(68°F~77°F)
Max charge current	37.5A
Charge voltage @ 25°C(77°F)	Float charge: 6.69V, average charge: 7.05V Temperature compensation factor: -9 mV/°C
Terminal output	M8 copper terminal (HPb59-1)



### Structure features of Shuangdeng 3/6-GFX series acid-proof stationary battery:

- Plate: positive plate adopts tubular type plate which can effectively prevent active substance falling, positive plate frame is made of multi-component alloy, the alloy crystal particle is tiny and dense, the corrosion-resisting performance is good and service life is long. The negative plate adopts pasted plate, grid adopts radiated structure, which enhances utilization ratio of active substance and discharge capability of strong current; moreover, the charge reception capability is strong.
- Battery case: adopt AS transparent case with corrosion prevention, high strength and beautiful appearance, the internal structure and state of battery can be directly observed via transparent case.
- Separator: the combined separator of multi-hole corrugated plastic plate and micro-bore rubber separator has bigger electrolyte storage space, which enhances dispersion speed of electrolyte, greatly reduces internal resistance of battery and prevents dendrite short circuit after deep discharge.
- Terminal sealing: the built-in copper-core lead-based terminal post has strong current carrying capacity and corrosion resistance. The unique terminal post sealing structure can effectively eliminate the stress which is generated due to plate extension, leakage is avoided, sealing reliability of terminal post is ensured and service life of battery is greatly increased.
- Acid resistant bolt: adopt special funnel-shaped acid resistant bolt which can filter acid fume and prevent flame, the density and temperature of electrolyte can be measured directly, use is safe and maintenance is convenient.



### Execution standard:

IEC60896-11 DIN40737-3  
BS EN 61427-2002  
GB/T13337.1  
Q/321284KCC 03-2006

### Authentication and certificate:

**Certificate of Qualification on Perfecting Measurement & Measuring System**  
GB/T19022-2003  
ISO10012:2003、IDT

**Quality Management System Authentication**  
GB/T19001-2000  
NO.03006Q10002R0M-2

**Environmental Management System Authentication**  
ISO 14001:2004  
NO.010607E2024R1M-2

**Occupational Health Management System Authentication**  
GB/T28001-2001  
NO.010607S10147R0M-2

**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**  
(2006)GM(321630488)

**Export product quality license**

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

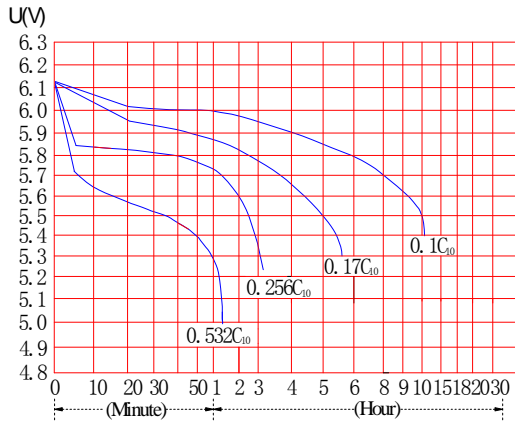
	5min	10min	15min	30min	45min	1hr	1.5hr	2hr	3hr	4hr	5hr	8 hr	10 hr	20hr	100 hr	120hr
1.90V	140	128	116	105	88	86	65	60	49	41	36	26	23	12.29	3.06	2.56
1.85V	155	154	148	124	101	96	75	68	54	45	39	28	24	13.51	3.23	2.7
1.80V	206	201	198	160	123	116	84	78	61	51	44	31	25	14.19	3.34	2.79
1.75V	248	241	230	176	140	128	94	83	63	52	45	32	26	14.76	3.42	2.86

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

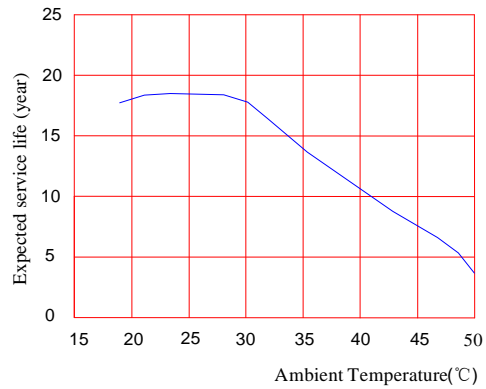
	5min	10min	15min	30min	45min	1hr	1.5hr	2hr	3hr	4hr	5hr	8 hr	10 hr	20hr	100 hr	120hr
1.90V	1652.0	1510.4	1368.8	1239.0	1038.4	1014.8	767.0	708.0	578.2	483.8	424.8	306.8	276.0	148.71	37.03	30.98
1.85V	1829.0	1817.2	1746.4	1463.2	1191.8	1132.8	885.0	802.4	637.2	531.0	460.2	330.4	288.0	163.47	39.08	32.67
1.80V	2430.8	2371.8	2336.4	1888.0	1451.4	1368.8	991.2	920.4	719.8	601.8	519.2	365.8	300.0	171.70	40.41	33.76
1.75V	2926.4	2843.8	2714.0	2076.8	1652.0	1510.4	1109.2	979.4	743.4	613.6	531.0	377.6	312.0	178.60	41.38	34.61



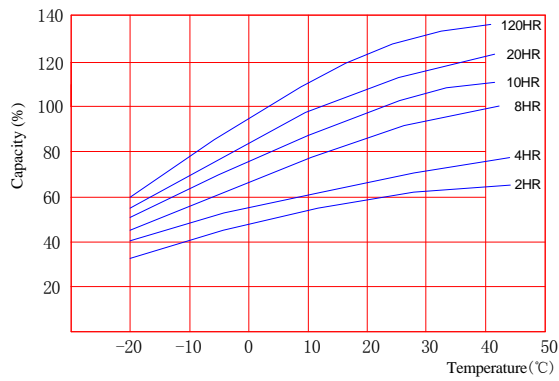
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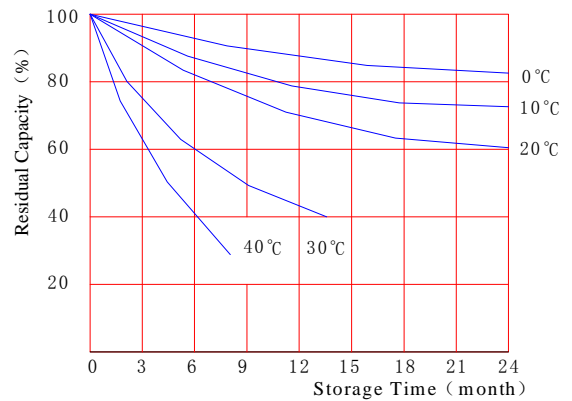
Discharge Characteristic Curve(20°C)



Relation curves between temperature and service Life



Relation curves between capacity and temperature



Self-discharge characteristic curve

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