



# GFX-200 4 OPzS 200



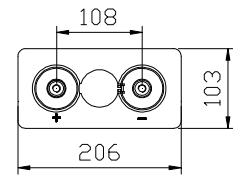
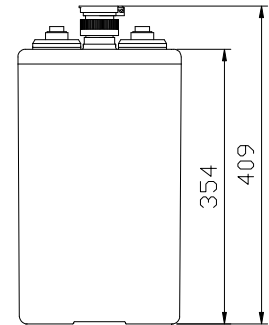
### Application:

- Solar and wind power system
- Electric power, nuclear power
- Telecommunication
- UPS
- Marine

### Features of performance application

- ✚ Designed service life of 22 years
- ✚ Supplement water period is 0.25-1 year (normal) 1-2 year (choose water content recombination valve)
- ✚ High cycle service life
- ✚ Wide operation temperature range
- ✚ Excellent deep cycle performance
- ✚ Superior low current discharge performance
- ✚ Better safety performance and reliability
- ✚ Modular and installation design
- ✚ Performance/price ratio is high and yearly operating cost is low
- ✚ Environmental friendly

Rated voltage	2 V
Capacity@ 25°C(77°F)	200Ah @ 10hr to 1.80V per cell
Weight	Without electrolyte: about 13.5 kg (29.7 lb) With electrolyte: about 18.0 kg (39.6 lb)
electrolyte density (charged)	1.240±0.01g/cm <sup>3</sup> (20°C) (68°F)
Reference internal resistance (charged)	About 0.62mΩ@ 25°C(77°F)
Short-circuit current	About 3129A (0.1S reference value)
Max discharge current	600A (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	30A
Charge voltage @ 25°C(77°F)	Float charge: 2.23V, average charge: 2.35V Temperature compensation factor: -3 mV/°C
Terminal output	M10 copper terminal (HPb59-1)



### Execution standard:

IEC60896-11 DIN40736  
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



### Structure features of Shuangdeng 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: 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 have 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.

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

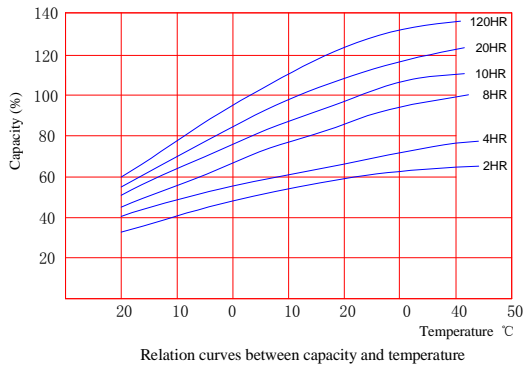
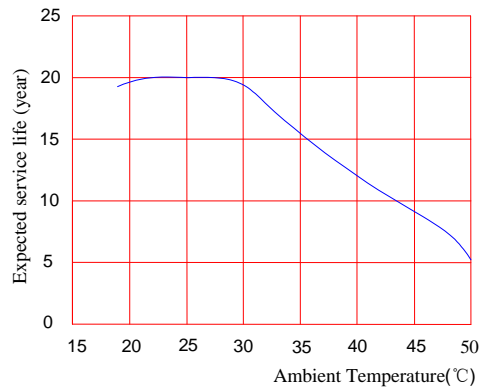
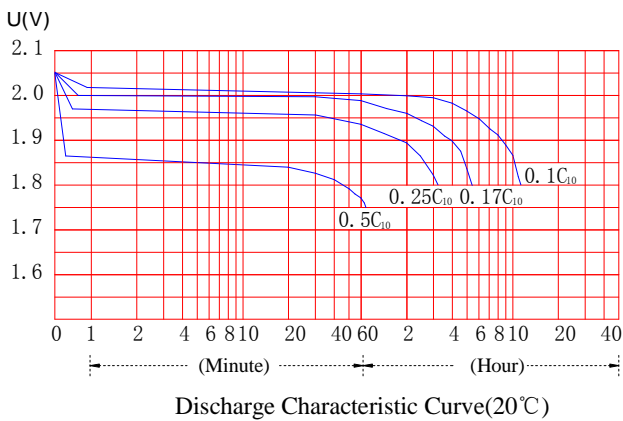
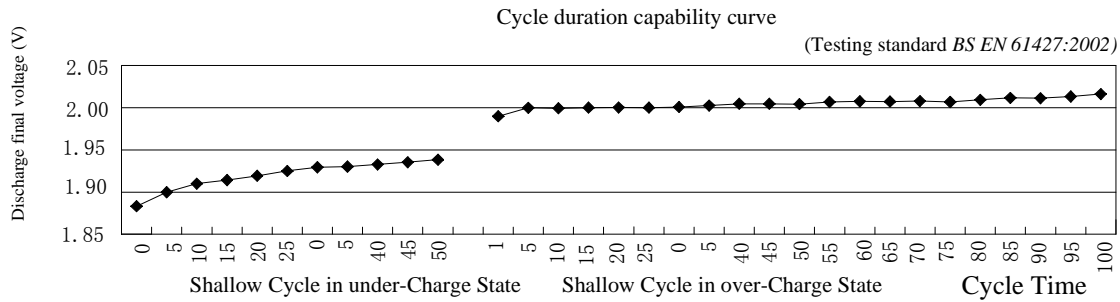
	5min	10min	15min	30min	45min	1hr	1.5hr	2hr	3hr	4hr	5hr	8 hr	10 hr	20hr	100 hr	120hr
1.90	121	110	100	91	76	75	56	52	42	33	29	21	18	10.41	2.69	2.25
1.85	134	133	127	107	87	83	65	58	46	36	31	22	19	11.45	2.83	2.36
1.80	165	161	158	128	98	93	67	62	49	41	35	25	20	12.0	2.94	2.45
1.75	198	193	184	141	112	102	75	66	50	42	38	26	21	12.5	3.03	2.53

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
1.90	218	198	178	165	150	135	121	107	83	68	58	40	33	20.8	5.38	4.49
1.85	240	238	218	193	173	152	135	118	90	74	64	44	37	22.6	5.60	4.67
1.80	320	312	293	249	220	190	164	137	106	85	72	49	42	23.5	5.76	4.80
1.75	383	374	336	280	244	208	177	145	109	87	73	51	44	24.1	5.85	4.88



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