



GFX-300 6 OPzS 300



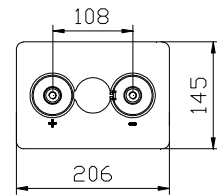
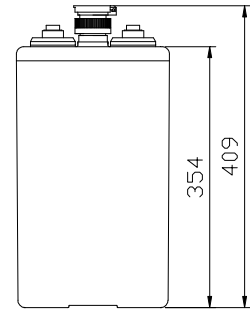
Application:

- 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)	300Ah @ 10hr to 1.80V per cell
Weight	Without electrolyte: about 19 kg (41.8 lb) With electrolyte: about 25 kg (55.0 lb)
electrolyte density (charged)	1.240±0.01g/cm ³ (20°C) (68°F)
Reference internal resistance (charged)	About 0.53mΩ@ 25°C(77°F)
Short-circuit current	About 3661A (0.1S reference value)
Max discharge current	900A (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	45A
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 complex 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 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)

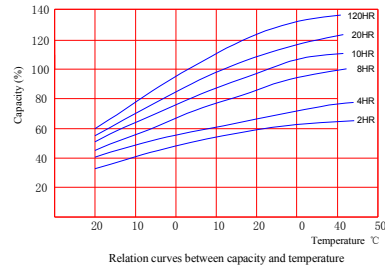
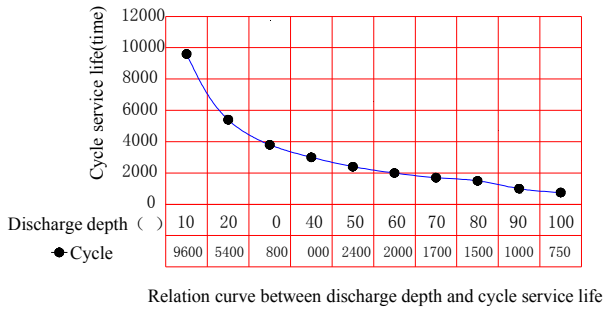
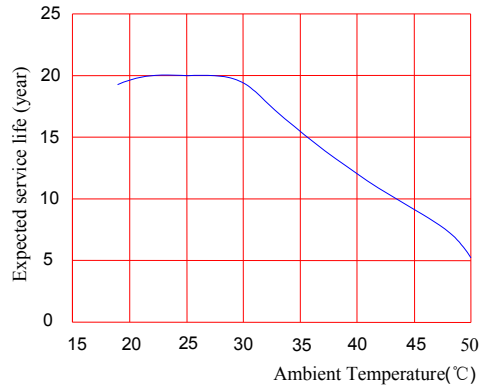
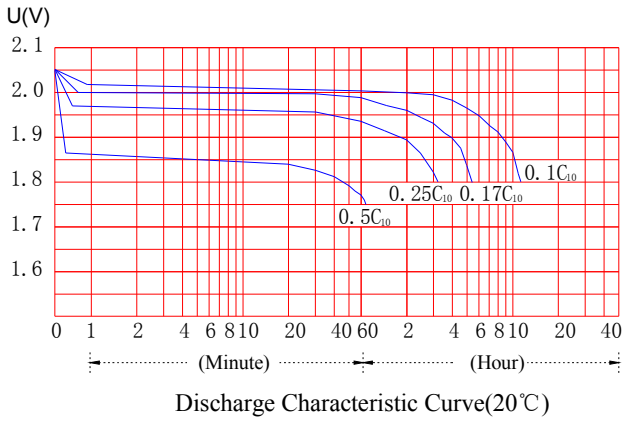
	5min	10min	15min	30min	45min	1hr	1.5hr	2hr	3hr	4hr	5hr	8 hr	10 hr	20hr	100 hr	120hr
1.90V	183	165	150	136	114	112	84	79	58	49	43	32	28	15.62	4.00	3.36
1.85V	201	199	191	160	131	125	97	86	64	54	47	34	29	17.18	4.21	3.54
1.80V	247	241	236	192	147	140	100	93	73	61	52	37	31	18.04	4.38	3.68
1.75V	297	289	276	212	167	152	112	99	76	62	53	38	32	18.75	4.51	3.79

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

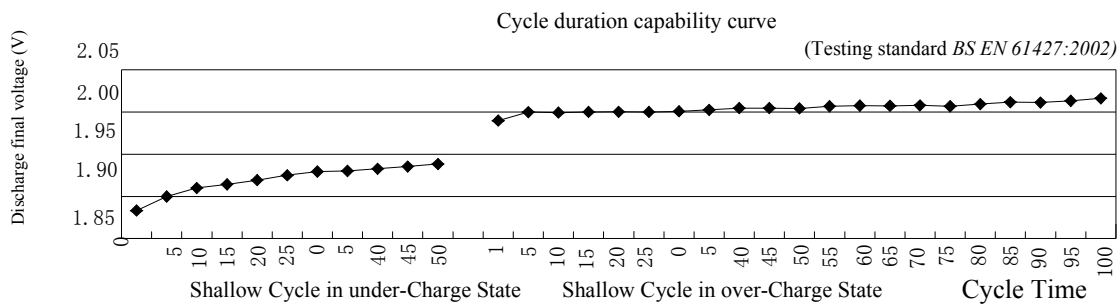
	5min	10min	15min	30min	45min	1hr	1.5hr	2hr	3hr	4hr	5hr	8 hr	10 hr	20hr	100 hr	120hr
1.90V	327	297	266	248	225	201	181	160	125	102	87	62	53	31.24	8.00	6.72
1.85V	360	357	327	290	258	226	202	177	135	113	95	67	57	34.02	8.34	7.01
1.80V	479	468	441	375	331	286	246	205	157	128	108	75	63	35.36	8.58	7.21
1.75V	575	561	505	419	366	313	265	217	162	131	109	78	66	36.19	8.70	7.31



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- Remark: a) test circumstances: 20-30°C, relative humidity is 50~80percent;
 b) charge mode: electricity of charge is equal to 105~115percent of discharge
 c) residual capacity is 80 percent C₁₀



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 The above data is only taken as reference instead of inspection standard. Additional notification won't be available for parameter change due to improvement and regulation of product. Inspection shall be performed in accordance with standards.
 We must make a statement, when the battery service life and safe operating performance is confirmed, the test condition will be stricter; accordingly, the battery shall not be used in these conditions, because it's difficult for battery to reach expected service life.