GFX-2500
20 OPzS 2500

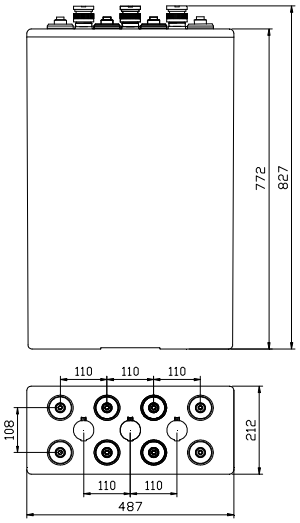
Application:

- 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℃(77℉)	2500Ah @ 10hr to 1.80V per cell
Weight	Without electrolyte: about 140 kg (308 lb) With electrolyte: about 190 kg (418 lb)
electrolyte density (charged)	1.240±0.01g/cm3 (20℃) (68℉)
Reference internal resistance (charged) Short-circuit current	About 0.26mΩ@ 25℃(77℉) About 7462A (0.1S reference value)
Max discharge current	7500A (5sec)
Self-discharge	< 10% 90 days @ 25℃ (77℉)
Temperature range	Application: -20℃ ～ 50℃(-4℉ ～ 122℉) Storage: 0℃～20℃(32℉～68℉) Recommendation: 20℃ ～ 25℃(68℉～77 ℉)
Max charge current	375A
Charge voltage @ 25℃(77℉)	Float charge: 2.23V, average charge: 2.35V Temperature compensation factor: -3 mV/℃
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℃, 77℉)

	5min	10min	15min	30min	45min	1hr	1.5hr	2hr	3hr	4hr	5hr	8 hr	10 hr	20hr	100 hr	120hr
1.90V	819	744	676	663	660	658	621	581	492	386	337	247	214	125	33.49	28.03
1.85V	883	878	875	873	852	789	714	673	560	430	377	275	237	137.5	35.25	29.50
1.80V	1329	1320	1293	1252	1059	1056	786	771	630	499	435	308	259	144.3	36.48	30.53
1.75V	1621	1610	1576	1475	1207	1198	880	843	646	528	457	314	261	150.1	37.40	31.30

Discharge power at different final voltages and different discharge rates unit: W (25℃, 77℉)

	5min	10min	15min	30min	45min	1hr	1.5hr	2hr	3hr	4hr	5hr	8 hr	10 hr	20hr	100 hr	120hr
1.90V	1470	1336	1285	1270	1251	1232	1162	1091	907	775	675	490	423	250.0	66.98	56.06
1.85V	1588	1577	1579	1560	1487	1413	1327	1240	1020	861	744	533	459	272.3	69.80	58.41
1.80V	2578	2560	2240	2160	2017	1873	1706	1539	1237	1019	865	610	512	282.8	71.50	59.84
1.75V	3145	3124	2281	2243	2075	1906	1738	1569	1405	1130	939	613	518	289.7	72.18	60.41

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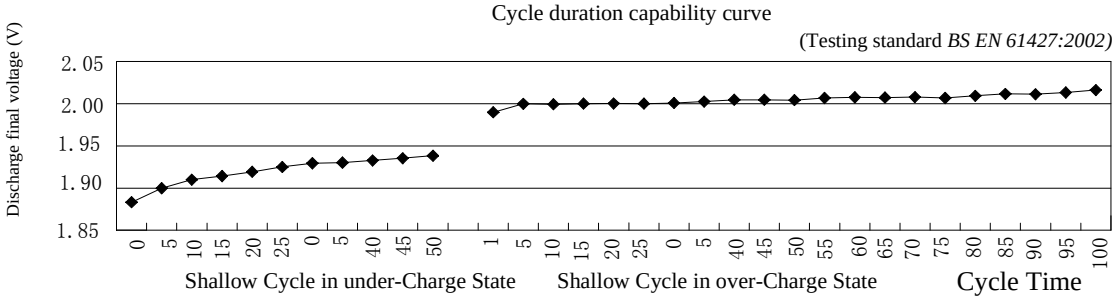
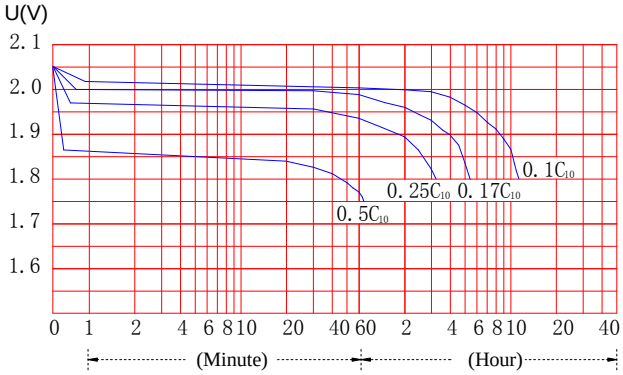
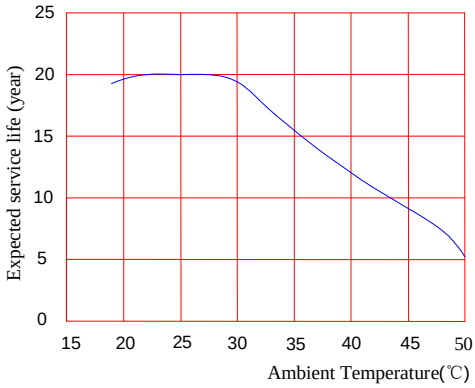
Cycle duration capability curve

(Testing standard *BS EN 61427:2002)*

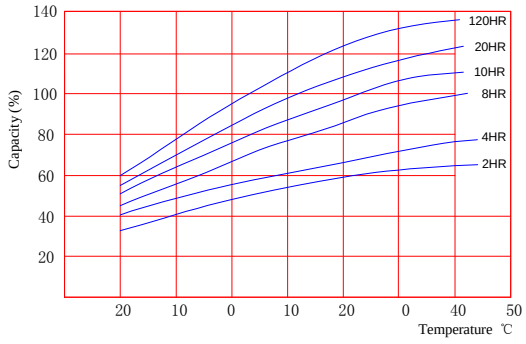




Discharge Characteristic Curve(20℃)



Relation curves between temperature and service Life



Relation curves between capacity and temperature

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