

## **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
- **4** 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

5min

152

167

206

247

5min

273

300

400

480

1.90V

1.85V

1.80V

1.75V

1.90V

1.85V

1.80V

1.75V

10min

138

165

201

241

10min

248

298

390

468

15min

125

160

197

230

15min

222

273

367

421

Discharge power at different final voltages and different discharge rates

## 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.

30min

113

133

160

177

30min

205

240

312

350

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

45min

95

109

122

140

45min

187

215

275

305

1hr

93

104

117

127

1hr

168

189

238

260

1.5hr

70

81

83

93

1.5hr

151

168

205

221

unit:

2hr

65

72

78

82

2hr

134

147

172

181

3hr

52

57

61

63

3hr

104

113

131

135

W (25°C, 77°F)

4hr

41

45

51

52

4hr

84

93

107

110

5hr

36

39

43

44

5hr

73

79

90

91

8 hr

27

28

31

33

8 hr

51

56

63

63

10 hr

23

24

26

28

10 hr

43

47

52

52

20hr

12.91

14.20

14.25

15.50

20hr

25.82

27.12

27.81

29.92

100 hr

3.35

3.53

3.67

3.78

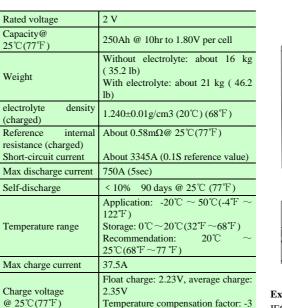
100 hr

6.70

6.99

7.19

7.30

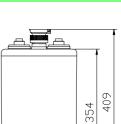


mV/°C

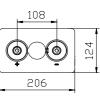
M10 copper terminal

Terminal output

GFX-250 5 OPzS 250



SHUANGDENG GROU



**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



(HPb59-1)

120hr

2.80

2.95

3.07

3.16

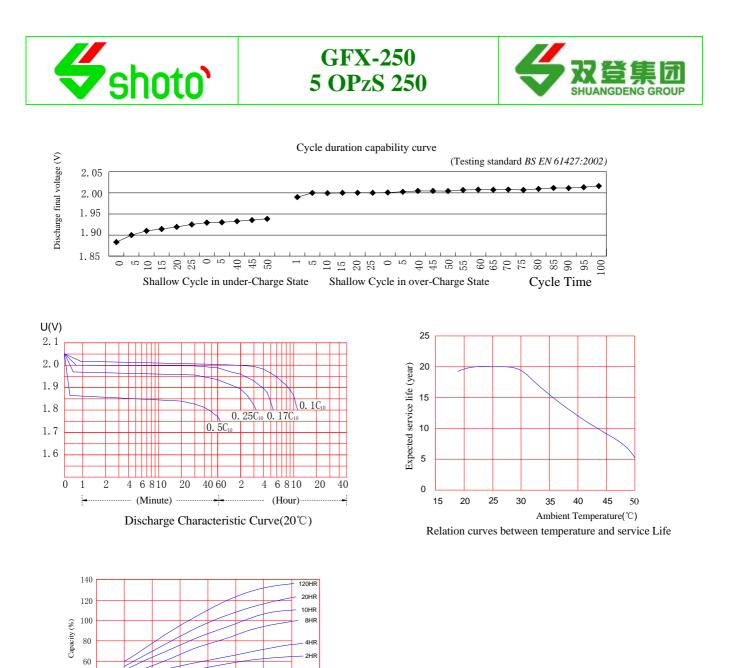
120hr

5.60

5.84

6.02

6.10



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20

10

0

10 20

Relation curves between capacity and temperature

50

40

Temperature °C

0

40 20