OPzS Series

A Robust Tubular battery for standby and deep cycling applications

GBC a joint venture collaboration was formed in the year 2009 in Dammam, Kingdom of Saudi Arabia to manufacture specialised batteries under technology transfer and brand license from HBL Power Systems Ltd., India.

HBL has more than 30 years of experience in the field of Specialized Batteries & DC Power Systems. **AEC** has tremendous experience in DC systems (Industrial & Electronics). **Abdullah H. Al Shuwayer** Company in Industrial Electrical Systems, contracting & other industrial activities.

Technical characteristics

- Positive Electrode : Tubular plate with low antimony lead alloy.
- Negative Electrode : Pasted grid plate.
- Separator : Microporous ribbed PE separator.
- Electrolyte : Diluted sulphuric acid 1.24 kg/lt @ 20^{0}C
- Container : High impact, transparent SAN with electrolyte level marks Max/Min
- Vent plug : Safety flame arrester vent plug
- Terminals : Leak proof pole with brass insert
- Connectors : Bolt-on type copper connector

Compliance with standards

- DIN 40736 - 1
- IEC 60896 - 11
- IEC 61427
- DIN 43539 - 5

Product specifications

Long service life	:	20 years at 20^{0}C
Cycle life	:	1500 cycles at 80%DOD
Self discharge	:	< 3% per month at 20^{0}C
Float Voltage	:	2.23 Volts per cell
Boost Voltage	:	2.4 Volts per cell
Recommended operating Temperature range	:	0^{0}C to +55^{0}C (preferred is 20^{0}C)

Product Features

1. High pressure Die-cast tubular positive plates for long life
2. Transparent container - maintenance becomes easy
3. Low gassing and minimum maintenance due to low antimony alloy
4. Large electrolyte reserve for extended water topping up intervals
5. Excellent cycle life for regular charge/discharge operations
6. Deep discharge capability

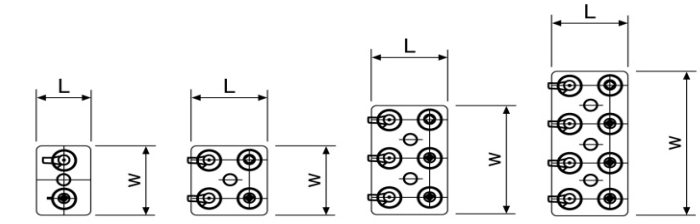
Applications

- Telecommunications
- Power generation
- Substation
- Signaling, Control & Regulating systems
- Emergency Lighting
- Data Processing Systems
- Wind & Solar Energies
- UPS

Range

Model as per DIN - 40736	Nominal Capacity in Ah (C10 to 1.80 ECV) at 20°C	Overall cell Dimensions (mm)				Weight (with out Acid) in Kg ±5%	Weight (Incl.Acid) in Kg ±5%	Approx. Qty of acid 1.22 sp.gr (Initial filling) in Ltrs
		Length ±5	Width ±5	Height-1 (Up to Lid) ±5	Height-2 (Up to vent plug) ±5			
2 OPzS 100	110	103	206	355	430	9.3	14.4	4.2
3 OPzS 150	165	103	206	355	430	11.9	16.3	3.6
4 OPzS 200	215	103	206	355	430	13.3	17.4	3.3
5 OPzS 250	270	124	206	355	430	15.9	20.8	4.0
6 OPzS 300	325	145	206	355	430	18.4	24.3	4.8
5 OPzS 350	380	124	206	469	545	21.2	28.0	5.6
6 OPzS 420	455	145	206	469	545	24.6	32.7	6.6
7 OPzS 490	530	166	206	469	545	28.2	37.6	7.7
6 OPzS 600	650	145	206	646	720	33.5	44.7	9.2
7 OPzS 700	770	210	191	646	720	42.9	58.5	12.8
8 OPzS 800	865	210	191	646	720	46.6	61.1	11.9
9 OPzS 900	990	210	233	646	720	52.7	71.9	15.7
10 OPzS 1000	1080	210	233	646	720	56.3	74.4	14.8
11 OPzS 1100	1210	210	275	646	720	62.8	85.5	18.6
12 OPzS 1200	1295	210	275	646	720	66.3	87.9	17.7
11 OPzS 1375	1510	210	275	796	870	76.8	105.6	23.6
12 OPzS 1500	1620	210	275	796	870	81.4	108.9	22.5
13 OPzS 1625	1780	214	399	772	846	87	113.0	21.5
14 OPzS 1750	1925	214	399	772	846	99.9	142.9	35.2
15 OPzS 1875	2060	214	399	772	846	105.4	147.0	34.1
16 OPzS 2000	2160	214	399	772	846	110.0	150.3	33.0
18 OPzS 2250	2475	212	487	772	846	127.9	180.1	42.8
20 OPzS 2500	2700	212	487	772	846	137.3	187.0	40.7
22 OPzS 2750	3025	212	576	772	846	152.4	214.1	50.5
24 OPzS 3000	3240	212	576	772	846	161.6	220.6	48.3

- Nominal Capacities are indicated at reference temperature of 20°C.
- Intermediate models available on request
- Few models in above range are under development and will be offered with long delivery time.
- Data in this document are subject to change without notice and become contractual only after written confirmation.



2 OPzS 100
3 OPzS 150
4 OPzS 200
5 OPzS 250
6 OPzS 300
5 OPzS 350
6 OPzS 420
7 OPzS 490
6 OPzS 600

7 OPzS 700
8 OPzS 800
9 OPzS 900
10 OPzS 1000
11 OPzS 1100
12 OPzS 1200
11 OPzS 1375
12 OPzS 1500

13 OPzS 1625
14 OPzS 1750
15 OPzS 1875
16 OPzS 2000

18 OPzS 2250
20 OPzS 2500
22 OPzS 2750
24 OPzS 3000

GULF BATTERIES COMPANY LIMITED
شركة بطاريات الخليج المحدودة
A HBL Joint Venture Company
P.O.BOX 11039, DAMMAM 31453, Kingdom of Saudi Arabia.
e-mail : contact@gulfbattery.com, website : www.gulfbattery.com

GBC - Corp Comm/OPzS/Sep 10