



LEAD ACID BATTERIES

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VALVE REGULATED LEAD ACID BATTERY

RANGE SUMMARY

OPzV series adopts immobilised Gel and Tubular Positive Plate technology. It offers high reliability and stable performance. By using die-casted positive grid and patented active material formula, it exceeds the DIN standard values and offer 20+ years design life in float service. It is very suitable for cyclic use under extreme operating conditions.



APPLICATIONS



FEATURES AND BENEFITS

- 20+ years design life at floating condition
- Wide operating temperature range from -40°C to 60°C
- Tubular positive plate with prolonged cycle life
- Nano Silica gel electrolyte
- Lead Calcium die cast grid with improved corrosion resistance capability
- Low self-discharge rate and long shelf life (1 year at 20°C)
- Excellent deep discharge recovery capability

CONSTRUCTION

- Positive plate: Tubular plate with die-cast Pb-Ca alloy grid
- Negative plate: Balanced Pb-Ca grid for improved recombination efficiency
- Separator: leaf shape polymer separator
- Electrolyte: Dilute high purity sulphuric acid with fumed Silica gel
- Battery container and cover: ABS
- Pillar seal: 100% factory tested, proven two layers epoxy resin seal
- Relief valve: Complete with integrated flame arrestor

CHARGING VOLTAGE AND SETTINGS

- Constant voltage charging is recommended
- Recommended float charge voltage: 2.23Vpc @ 25°C
- Float voltage temperature compensation: -3mV/°C/cell
- Equalize charge voltage: 2.35 Vpc @25 °C
- Max. charge current allowable: 0.20C 10A

GENERAL SPECIFICATIONS

Part Number	Voltage (V)	Capacity (Ah)	Length (mm)	Width (mm)	Height (mm)	Weight (kg)	Terminal
OPzV2-200	2	200	145	206	390	24.4	M8 Fem
OPzV2-300	2	300	145	206	506	31.5	M8 Fem
OPzV2-420	2	420	166	206	506	36.3	M8 Fem
OPzV2-500	2	500	145	206	681	44.2	M8 Fem
OPzV2-600	2	600	191	210	681	60	M8 Fem
OPzV2-800	2	800	233	210	681	71.8	M8 Fem
OPzV2-1000	2	1000	275	210	681	84	M8 Fem
OPzV2-1500	2	1500	399	212	807	145	M8 Fem
OPzV2-2000	2	2000	487	212	807	181	M8 Fem
OPzV2-2500	2	2500	576	212	807	210	M8 Fem

COMPLIED STANDARDS

- IEC 60896-21/22
- DIN40742
- IEC61427
- YD/T1360
- Eurobat guide, long life
- BS6290 part 4
- UL 1989
- IATAand IMDG

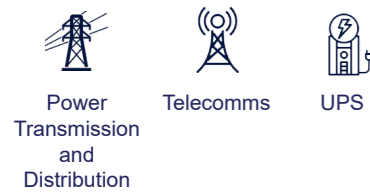
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VALVE REGULATED LEAD ACID BATTERY

RANGE SUMMARY

By combining a newly developed corrosion resistance alloy and an advanced curing process, the DB series can achieve better performance and reliable standby service life up to 12 years for float service.

APPLICATIONS



FEATURES AND BENEFITS

- 12 years design life in floating condition
- Wide operating temperature range
- Thick flat plate featuring high Tin low Calcium alloy
- Operation in any position without acid leakage
- Very suitable for float condition
- Low self-discharge rate and long shelf life
- Excellent deep discharge recovery capability

CONSTRUCTION

- Positive plate: High Sn low Ca grid to resist corrosion and prolong life
- Negative plate: Balanced Pb-Ca grid for improved recombination efficiency
- Separator: Advanced AGM separator for ultra low float current
- Electrolyte: Dilute high purity sulphuric acid
- Battery container and cover: ABS
- Pillar seal: Double layers epoxy resin seal
- Relief valve: Complete with integrated flame arrestor

CHARGING VOLTAGE AND SETTINGS

- Constant voltage charging is recommended
- Recommended float charge voltage: 2.27Vpc @ 25°C
- Float voltage temperature compensation: -3mV/°C/cell
- Equalize charge voltage: 2.35 Vpc @25°C
- Max. charge current allowable: 0.25C 10A

GENERAL SPECIFICATIONS

Part Number	Voltage (V)	Capacity (Ah)	Length (mm)	Width (mm)	Height (mm)	Weight (kg)	Terminal
DB12-35	12	35	197	165	176	12.2	M6 Fem
DB12-55	12	55	230	138	215	17	M6 Fem
DB12-75	12	75	266	168	213	22.3	M6 Fem
DB12-100	12	100	330	174	220	30	M8 Fem
DB12-120	12	120	408	177	224	35.4	M8 Fem
DB12-150	12	150	483	170	240	45.2	M8 Fem
DB12-180	12	180	532	207	225	53.3	M8 Fem
DB12-200	12	200	520	240	222	60	M8 Fem
DB12-230	12	230	520	240	222	65.3	M8 Fem
DB12-250	12	250	525	268	225	72	M8 Fem

COMPLIED STANDARDS

- IEC 60896-21/22
- Eurobat guide, long life
- 8S6290 part 4
- UL1989
- IATA and IMDG

NOTES:

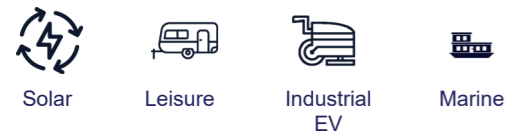
VALVE REGULATED LEAD ACID BATTERY

RANGE SUMMARY

By combining up-to-date DCP additives in the positive plates and special AGM separators, we created an innovative range of Deep Cycle batteries. The DC range features 70% higher cyclic life with 12 years of float life when compared to the standard batteries.

This series is highly suited for very unreliable power applications requiring the batteries to provide extra cyclic life performance.

APPLICATIONS



FEATURES AND BENEFITS

- 70% more cyclic life through innovation at the PAM additives
- Long life expectancy of 12 years in floating condition
- Thick flat plate with high Tin low Calcium alloy
- Wide operating temperature range from -20°C to 60°C
- Low self-discharge rate
- Very good deep cycle performance: up to 500@ 80%DOD
- Excellent deep discharge recovery capability

CONSTRUCTION

- Positive plate: Thick high Sn low Ca grid with special paste
- Negative plate: Balanced Pb-Ca grid for improved recombination efficiency
- Separator: Advanced AGM separator for high pressure cell design
- Electrolyte: Dilute high purity sulphuric acid
- Battery container and cover: ABS
- Pillar seal: Two layers epoxy resin seal
- Relief valve: Complete with integrated flame arrestor

CHARGING VOLTAGE AND SETTINGS

- Constant voltage charging is recommended
- Recommended float charge voltage: 2.27Vpc @ 25 °C
- Float voltage temperature compensation: -3mV/°C/cell
- Cyclic application charge voltage: 2.40-2.45 Vpc @25 °C
- Max. charge current allowable: 0.25C, 10A

GENERAL SPECIFICATIONS

Part Number	Voltage (V)	Capacity (Ah)	Length (mm)	Width (mm)	Height (mm)	Weight (kg)	Terminal
DC6-180	6	180	260	180	275	32.5	M8 Fem
DC6-200	6	200	260	180	275	34.5	M8 Fem
DC8-150	8	150	260	180	285	35.1	M8 Fem
DC12-22	12	22	180	76	170	6.7	M5 Fem
DC12-33	12	33	195	130	165	10	M6 Fem
DC12-55	12	55	230	151	180	16.6	M6 Fem
DC12-75	12	75	262	168	220	26.2	M6 Fem
DC12-100	12	100	330	171	220	31.2	M8 Fem
DC12-135	12	135	338	172	285	45	M8 Fem
DC12-150	12	150	483	172	240	48.6	M8 Fem
DC12-200	12	200	522	240	228	63	M8 Fem

COMPLIED STANDARDS

- IEC 60896-21/22
- Eurobat guide, long life
- 8S6290 part 4
- UL1989
- IATAand IMDG

NOTES:

VALVE REGULATED LEAD ACID BATTERY

RANGE SUMMARY

The FA (Front Access) Series is especially designed for telecommunication use with 12 years design life in float service. By combining the newly developed paste formula with up-to-date AGM structures, this range features 12 years design life and Front Access connection for fast, easy installation and maintenance.

APPLICATIONS



FEATURES AND BENEFITS

- 12 years design life in floating condition
- Wide operating temperature range from -15°C to 60°C Advanced paste formula with increased recharge efficiency
- Front access terminal with standard width for 19" and 23" ETSI racks
- 30% decreased float current lead to excellent high temperature resistance
- Thick flat plate with high Tin low Calcium alloy
- Low self-discharge rate
- Excellent deep discharge recovery capability

CONSTRUCTION

- Positive plate: Thick high Sn low Ca grid minimize corrosion and prolong life
- Negative plate: Balanced Pb-Ca grid for improved recombination efficiency
- Separator: Advanced AGM separator for ultra low float current
- Electro lyte: Dilute high purity sulphuric acid
- Battery container and cover: ABS
- Pillar seal: 100% factory tested, proven two layers epoxy resin seal
- Relief valve: Complete with integrated flame arrestor

CHARGING VOLTAGE AND SETTINGS

- Constant voltage charging is recommended
- Recommended float charge voltage: 2.25Vpc @ 25 °C
- Float voltage temperature compensation: -3mV/°C/cell
- Equalize charge voltage: 2.35 Vpc @25°C
- Max. charge current all owable: 0.25C 10A

GENERAL SPECIFICATIONS

Part Number	Voltage (V)	Capacity (Ah)	Length (mm)	Width (mm)	Height (mm)	Weight (kg)	Terminal
FAB12-55	12	55	277	105	222	17.9	M6 Fem
FAB12-100	12	100	558	112	295	40.5	M8 Fem
FAB12-125	12	125	558	112	295	44.8	M8 Fem
FAB12-150H	12	150	560	125	316	47.5	M8 Fem
FAB12-150L	12	150	558	112	295	48.5	M8 Fem
FAB12-160	12	160	560	125	316	50.8	M8 Fem
FAB12-180	12	180	560	125	316	52.1	M8 Fem
FAB12-200	12	200	560	125	316	56	M8 Fem

COMPLIED STANDARDS

- IEC 60896-21/22
- Eurobat guide, long life
- BS6290 part 4
- JISC 8704
- YD/T 799
- UL1989
- IATA and IMDG

NOTES:

VALVE REGULATED LEAD ACID BATTERY

RANGE SUMMARY

The GB series offers a 5 years full maintenance free design life. With a compact design and good reliability, this series is highly suited for security and alarm systems, UPS systems, emergency light systems and other small backup applications.

APPLICATIONS



UPS



Power Transmission and Distribution



FEATURES AND BENEFITS

- 5 years design life in floating condition
- Wide operating temperature range from -15°C to 55°C
- Can be used in vertical or horizontal position
- Balanced design for both floating and cyclic operation
- Low self-discharge rate and long shelf life
- Excellent deep discharge recovery capability

CONSTRUCTION

- Positive plate: Standard Pb-Ca-Sn alloy
- Negative plate: Balanced Pb-Ca grid for improved recombination efficiency
- Separator: AGMseparator
- Electrolyte: Dilute high purity sulphuric acid
- Battery container and cover: ABS
- Pillar seal: Double layers epoxy resin seal
- Relief valve: Self sealing rubber cap valve with proven reliability

CHARGING VOLTAGE AND SETTINGS

- Constant voltage charging is recommended
- Recommended float charge voltage: 2.27Vpc @ 25 °C
- Float voltage temperature compensation: -3mV/°C/cell
- Equalise charge voltage: 2.35 Vpc @25°C
- Max. charge current allowable: 0.25C, 10A

GENERAL SPECIFICATIONS

Part Number	Voltage 12 (V)	Capacity (Ah)	Length (mm)	Width (mm)	Height (mm)	Weight (kg)	Terminal
GB6-4.5	6	4.5	70	47	105	0.73	F1
GB6-7	6	7	151	36	100	1	F1
GB6-12	6	12	151	50	100	1.65	F2
GB12-1.3	12	1.3	98	43.5	58	0.56	F1
GB12-5	12	5	90	70	106	1.45	F1
GB12-7	12	7	151	65	100	2.1	F1/F2
GB12-9	12	9	151	65	100	2.6	F2
GB12-12	12	12	151	98	100	3.6	F2
GB12-20	12	20	181	76	170	5.8	M5 Fem
GB12-25	12	25	175	166	125	7.3	M5 Fem
GB12-33	12	33	195	130	164	9.4	M6 Fem

COMPLIED STANDARDS

- IEC 60896-21/22
- Eurobat guide, long life
- BS6290 part 4
- JISC 8704
- YD/T 799
- UL1989
- IATA and IMDG

NOTES:

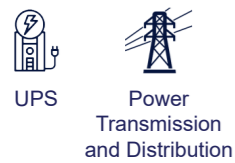
VALVE REGULATED LEAD ACID BATTERY

RANGE SUMMARY

The HR (High Rate) series is especially designed for high rate discharge applications. By using strong grids and specially designed active material, the HR series offers stable performance during high current discharge. It offers extremely high power output at 15 minutes backup time with 5-12 years design life.



APPLICATIONS



FEATURES AND BENEFITS

- 30% increased Power output at 15 minutes backup
- 5-12 years design life in floating condition
- Optimised plate achieve low internal resistance
- Wide operating temperature range from -20°C to 60°C
- Low self-discharge rate
- Excellent deep discharge recovery capability

CONSTRUCTION

- Positive plate: Special designed grid with Pb-Ca-Sn alloy
- Negative plate: Balanced Pb-Ca grid for improved recombination efficiency
- Separator: Low internal resistance AGM separator
- Electrolyte: Dilute high purity sulphuric acid
- Battery container and cover: ABS
- Pillar seal: Double layers epoxy resin seal
- Relief valve: Complete with integrated flame arrestor

CHARGING VOLTAGE AND SETTINGS

- Constant voltage charging is recommended
- Recommended float charge voltage: 2.27Vpc @ 25°C
- Float voltage temperature compensation: -3mV/°C/cell
- Equalize charge voltage: 2.35 Vpc @25°C
- Max. charge current allowable: 0.25C, 10A

GENERAL SPECIFICATIONS

Part Number	Voltage (V)	Capacity (Ah)	Length (mm)	Width (mm)	Height (mm)	Weight (kg)	Terminal
HR12-24W	12	24	151	65	100	1.9	F2
HR12-36W	12	36	151	65	101	2.45	F2
HR12-75W	12	75	181	76	170	5.8	T5
HR12-100W	12	100	175	166	125	8	T5
HR12-140W	12	140	197	165	170	11.1	T7
HR12-200W	12	200	229	138	215	17	M6 Fem
HR12-270W	12	270	266	168	213	24.3	M6 Fem
HR12-370W	12	370	306	168	211	28.3	M6 Fem
HR12-620W	12	620	532	207	225	57	M8 Fem
HR12-800W	12	800	520	239	222	69	M8 Fem

COMPLIED STANDARDS

- IEC 60896-21/22
- Eurobat guide, long life
- BS6290 part 4
- JISC 8704
- YD/T 799
- UL1989
- IATA and IMDG

NOTES:

RANGE SUMMARY

LC-C series lead-carbon batteries use functional activated carbon and graphene as carbon materials, which are used as active material in the negative plate of the battery.

Adding of the activated carbon and graphene gives the lead carbon batteries advantages of both: lead-acid batteries and super capacitors. This not only improves the ability of rapid charge and discharge, but also greatly prolongs the battery cyclic life. Lead carbon batteries are very well suited for the applications where batteries are used at Partial State Of Charge, as the Lead Carbon technology prevents sulphation of the plates.

Practically all Lead Carbon batteries are generally a direct, drop-in replacement for regular lead acid batteries.



APPLICATIONS



Solar

FEATURES AND BENEFITS

- Very high cyclic life.
- High charging efficiency (95%).
- Excellent charge acceptance.
- Reduced sulphation.
- Hugely improved PSoC performance.
- Low maintenance and no watering.
- Sealed VRLA construction - almost zero gassing.
- Lead acid batteries are >96% recyclable.
- High reliability & predictable performance.
- Wide temperature tolerance (-30 to +60°C).

CONSTRUCTION

- Positive plate: lead based alloy
- Negative plate uses activated carbon and graphene

CHARGING VOLTAGE AND SETTINGS

- Reaching 7000 cycles at 30% DOD and more than 2200 cycles at 80% DOD

GENERAL SPECIFICATIONS

Part Number	Voltage (V)	Capacity (Ah)	Length (mm)	Width (mm)	Height (mm)	Weight (kg)	Terminal
LC2-300C	2	300	170	150	330	18.3	M8 Fem
LC2-500C	2	500	241	171	330	30.5	M8 Fem
LC2-600C	2	600	285	171	330	36.5	M8 Fem
LC2-800C	2	800	383	171	330	50	M8 Fem
LC2-1000C	2	1000	471	171	330	60.5	M8 Fem
LC2-1500C	2	1500	355	337	330	91	M8 Fem
LC2-2000C	2	2000	476	337	330	120	M8 Fem
LC2-3000C	2	3000	696	340	330	178	M8 Fem

COMPLIED STANDARDS

- ISO 9001
- UL1642
- ISO 14001
- OHSAS 18001

NOTES:

RANGE SUMMARY

By combining the newly developed nano gel electrolyte with up-to-date AGM structures, BSB created the innovative LSG range of batteries. This range offers 20 years design life with very high deep cycling capability.

APPLICATIONS



FEATURES AND BENEFITS

- 20 years design life in floating condition
- Wide operating temperature range from -40°C to 60°C
- Nano gel electrolyte eliminate the acid stratification and prolong cycle life
- Can be used in vertical or horizontal orientation
- Float current decreased 30% lead to excellent high temperature resistance
- Thick flat plate with high Tin low Calcium alloy
- Low self-discharge rate
- Excellent deep discharge recovery capability

CONSTRUCTION

- Positive plate: Thick high Sn low Ca grid minimize corrosion and prolong life
- Negative plate: Balanced Pb-Ca grid for improved recombination efficiency
- Separator: Advanced AGM separator for ultra low float current
- Electrolyte: Dilute high purity sulphuric acid with nano gel
- Battery container and cover: ABS
- Pillar seal: 100% factory tested, proven two layers epoxy resin seal
- Relief valve: Complete with integrated flame arrestor

CHARGING VOLTAGE AND SETTINGS

- Constant voltage charging is recommended
- Recommended float charge voltage: 2.27Vpc @ 25°C
- Float voltage temperature compensation: -3mV/°C/cell
- Equalise charge voltage: 2.35 Vpc @25°C
- Max. charge current allowable: 0.25C, 10A

GENERAL SPECIFICATIONS

Part Number	Voltage (V)	Capacity (Ah)	Length (mm)	Width (mm)	Height (mm)	Weight (kg)	Terminal
LSG2-200	2	200	126	187	375	19	M8 Fem
LSG2-300	2	300	166	184.5	375	25	M8 Fem
LSG2-400	2	400	197	187	375	31	M8 Fem
LSG2-500	2	500	223	185	372	35	M8 Fem
LSG2-800	2	800	186	229	569	60	M8 Fem
LSG2-1000	2	1000	225	229	566	75.5	M8 Fem
LSG2-1200	2	1200	265.5	229	566	93	M8 Fem
LSG2-1500	2	1500	349	233	566	122	M8 Fem
LSG2-2000	2	2000	496	363	374	176	M8 Fem

COMPLIED STANDARDS

- ISO 9001
- UL1642
- ISO 14001
- OHSAS 18001

NOTES:

RANGE SUMMARY

The Solar series is designed for frequent cyclic charge and discharge applications under extreme environments. By combining the newly developed Nano Gel electrolyte with high density paste, the Solar range offers high recharge efficiency at very low charge current. The acid stratification is highly reduced by adding Nano Gel.

APPLICATIONS



FEATURES AND BENEFITS

- 12 years in floating condition
- Up to 5 years design life at renewable energy applications according to IEC61427
- Wide operating temperature range from -25°C to 65°C
- Nano gel electrolyte eliminate the acid stratification and prolong cycle life
- Round trip efficiency as high as 85%
- Thick positive flat plate design with high Tin low Calcium alloy and high density paste
- Low self-discharge rate and long shelf life (9 months at 20°C)

CONSTRUCTION

- Positive plate: Thick high Sn low Ca grid with high density paste
- Negative plate: Over designed capacity to overcome sulphation in low SOC
- Separator: Advanced AGM separator
- Electrolyte: Dilute high purity sulphuric acid with nano gel
- Battery container and cover: ABS
- Pillar seal: 100% factory tested, proven two layers epoxy resin seal
- Relief valve: Complete with integrated flame arrestor

CHARGING VOLTAGE AND SETTINGS

- Constant voltage charging is recommended
- Recommended float charge voltage: 2.25Vpc@ 25°C
- Float voltage temperature compensation: -3mV/°C/cell
- Equalise charge voltage: 2.35 Vpc @25 °C
- Cyclic application charge voltage: 2.40-2.45 Vpc @25 °C
- Max.charge current allowable: 0.25C, 10A

GENERAL SPECIFICATIONS

Part Number	Voltage (V)	Capacity (Ah)	Length (mm)	Width (mm)	Height (mm)	Weight (kg)	Terminal
Solar12-33	12	33	197	165	176	12	M6 Fem
Solar12-55	12	55	230	150	180	15.8	M6 Fem
Solar12-65	12	65	262	166	220	21.4	M6 Fem
Solar12-80	12	80	262	168	220	34.5	M6 Fem
Solar12-100	12	100	330	171	220	28	M8 Fem
Solar12-120	12	120	408	177	224	34	M8 Fem
Solar12-150	12	150	483	170	240	42	M8 Fem
Solar12-200	12	200	520	240	222	57	M8 Fem
Solar12-220	12	220	525	268	225	62	M8 Fem
Solar12-250	12	250	525	208	225	67	M8 Fem

COMPLIED STANDARDS

- IEC 60896-21/22
- IEC 61427
- Eurobat guide, long life
- 8S6290 part 4
- GB/T 22473
- UL 1989
- IATAand IMDG

NOTES:

RANGE SUMMARY

By combining newly developed NANO gel electrolyte, container with enhanced characteristics, and plates - horizontally positioned, pancake-style stacked and compressed under 60 kPA - we created innovative XT Series of batteries. The XT Series features 15 years of design life, front access terminals for fast installation and easy maintenance, outstanding thermal resistance (works in up to 65°C).

APPLICATIONS



FEATURES AND BENEFITS

- 12 years in floating condition
- Up to 5 years design life at renewable energy applications according to IEC61427
- Wide operating temperature range from -25°C to 65°C
- Nano gel electrolyte eliminate the acid stratification and prolong cycle life
- Round trip efficiency as high as 85%
- Thick positive flat plate design with high Tin low Calcium alloy and high density paste
- Low self-discharge rate and long shelf life (9 months at 20°C)

CONSTRUCTION

- Positive plate: Thick high Sn low Ca grid with high density paste
- Negative plate: Over designed capacity to overcome sulphation in low SOC
- Separator: Advanced AGM separator
- Electrolyte: Dilute high purity sulphuric acid with nano gel
- Battery container and cover: ABS
- Pillar seal: 100% factory tested, proven two layers epoxy resin seal
- Relief valve: Complete with integrated flame arrestor

CHARGING VOLTAGE AND SETTINGS

- Constant voltage charging is recommended
- Recommended float charge voltage: 2.25Vpc@ 25°C
- Float voltage temperature compensation: -3mV/ °C/cell
- Equalize charge voltage: 2.35 Vpc @25 °C
- Cyclic application charge voltage: 2.40-2.45 Vpc @25 °C
- Max.charge current allowable: 0.25C, 10A

GENERAL SPECIFICATIONS

Part Number	Voltage (V)	Capacity (Ah)	Length (mm)	Width (mm)	Height (mm)	Weight (kg)	Terminal
XT6-200G	6	200	363	125	250	31.5	M8 Fem
XT12-100G	12	100	370	125	291	33	M8 Fem

COMPLIED STANDARDS

- IEC 60896-21/22
- GB/T19638
- IEC61427
- YD/T799
- Eurobat guide, long life
- BS6290 part 4
- UL1989

NOTES: