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ISO14001 TS16949



Industrial Battery Series



*Moving World of
Energy Power*

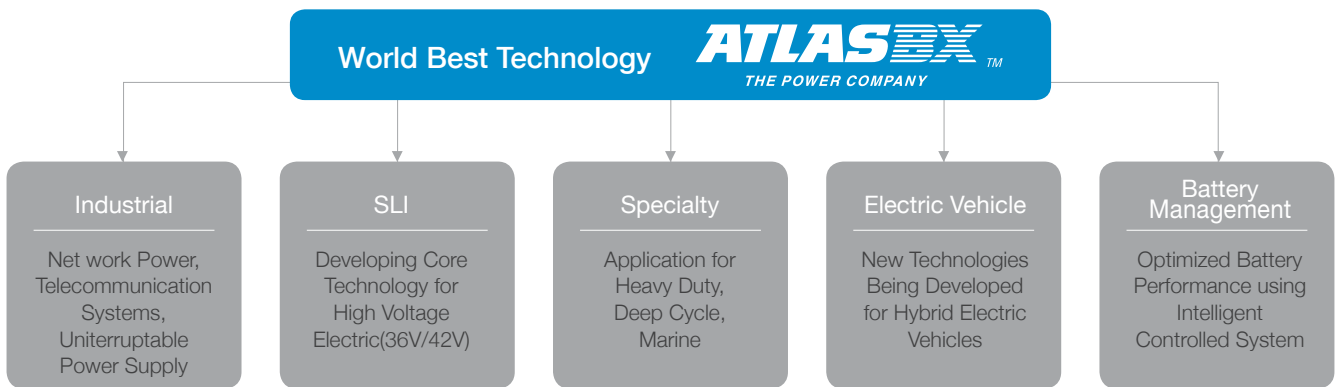


Company Introduction

Since founded in 1944, ATLASBX has continued to develop, to grow into a major player in the world-leading battery industry.

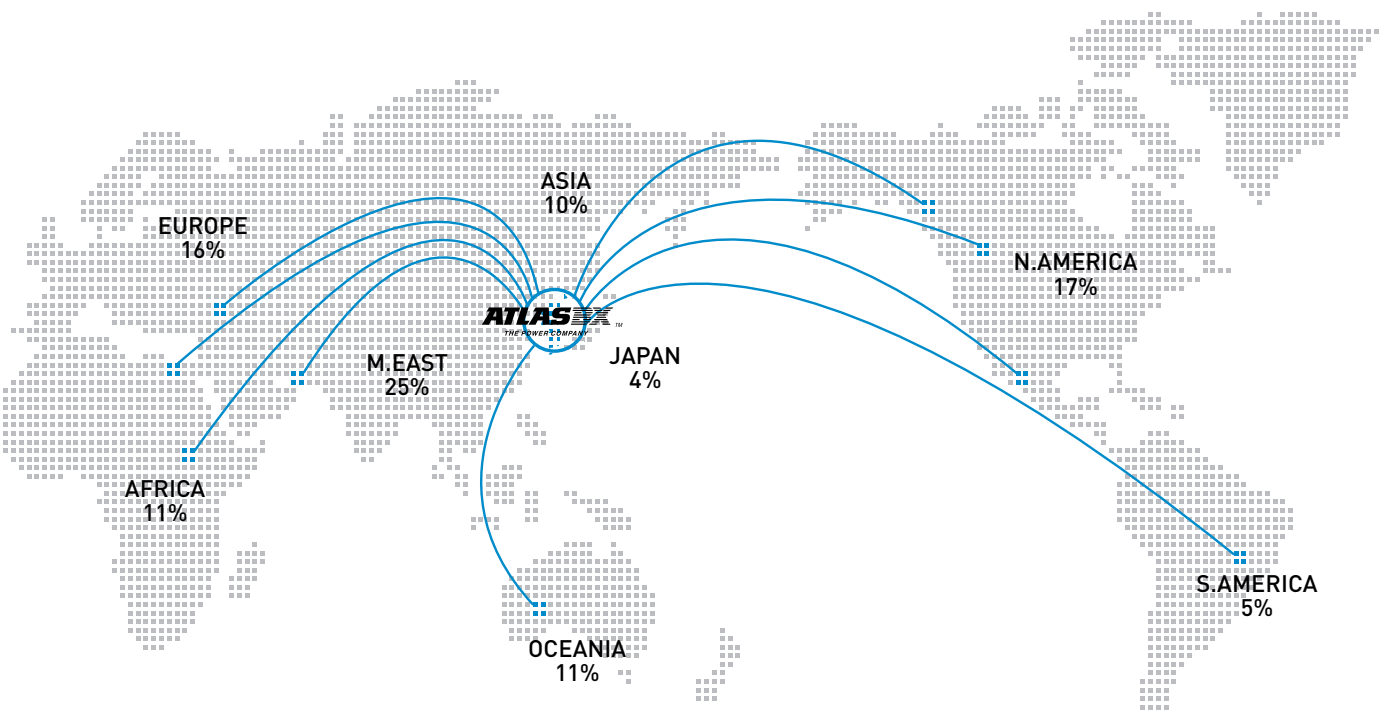
World Best Technology

ATLASBX has a lot of patents and world best technologies from industrial batteries to electromobile

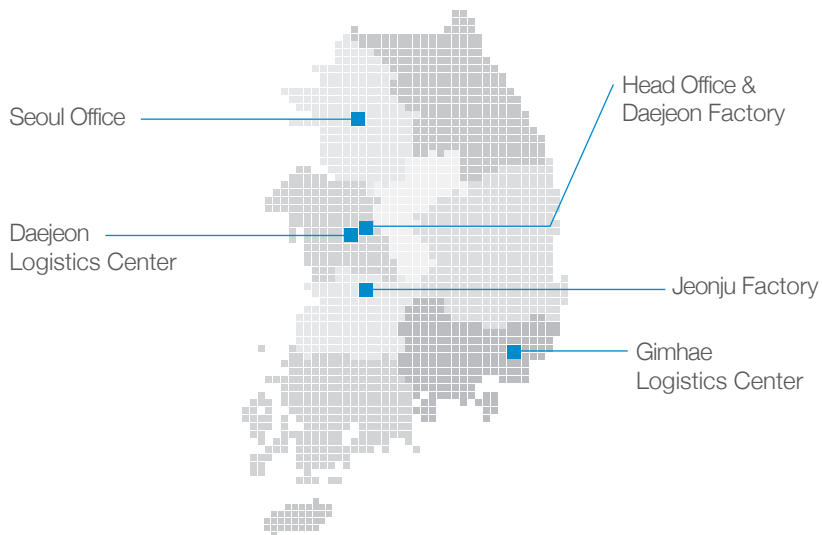


Overseas Sales

130 countries with 250 customers



Main Office & Factories

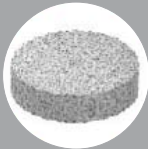


VRLA Battery



Model	KB Series	KBA Series	KBX Series
Technology	AGM	AGM	AGM
Nominal Voltage	12V	2V	2V
Capacity	80AH ~ 100AH 150AH ~ 200AH	100AH ~ 2400AH	150AH ~ 2000AH
Positive Plate	Paste	Paste	Paste
Negative Plate	Paste	Paste	Paste
Connector T ype	Nut inserted / bolted connector	Nut inserted	Nut inserted
Design Life	3~5 years	5~7years	10~12 years
Floating Voltage	2.23V per Cell at 25°C	2.23V per Cell at 25°C	2.23V per Cell at 25°C
Shelf Life	6months at 25°C	6months at 25°C	6months at 25°C

KB Series



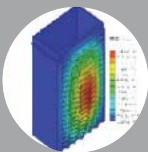
1. Explosion Proof Filter
- Cutting off fire



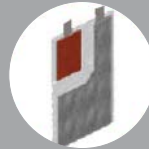
2. Independent Low Pressure Safety Valve
- Gas recombination system
- Gas comes out from the battery to protect fire by high pressure



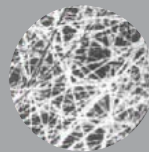
3. Handle
- User-friendly handle



4. Rigidity Container
- Strong at heat-resistant and impact-resistant



5. Positive · Negative Plate
- Silver alloy plate for heat-resistant



6. AGM Separator
- Fixed electrolyte



Application

- | | |
|-------------------------------------|------------------------------|
| • UPS(uninterruptable power supply) | • EPS(electric power system) |
| • Telecom | • Emergency light |
| • Security equipment | • Solar & wind system |
| • Wheelchair | • Signal |

Main Technical Feature

1. High Performance

- Excellent high rate discharge performance and sudden discharge performance
- Powerful cycle performance by high active material density

2. Long Life

- Full frame silver alloy plate is applied
- High electrolyte density using vacuum injection machine
- 3~5years design life at 25°C

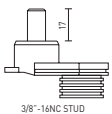
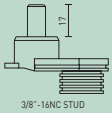
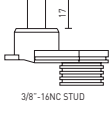
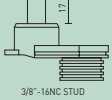
3. Reliable Quality

- Equal quality batteries by ATLASBX high standard quality system
- Batteries have low voltage gap and inner resistance deviation characteristics

4. User-friendly and Safety

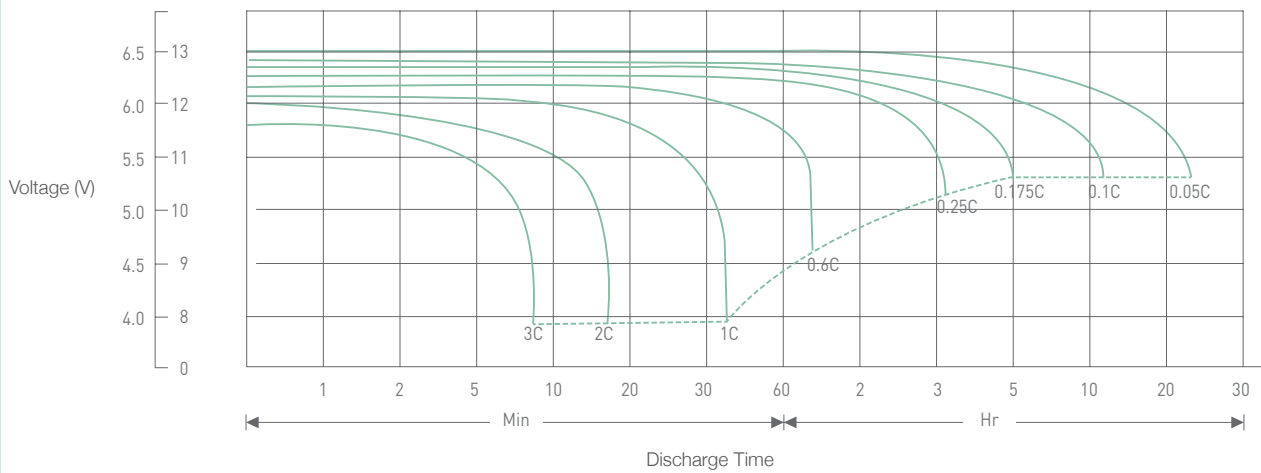
- Rigidity container endures impact and heat from the outside
- No leak from batteries by 3 level sealed structure

Specification

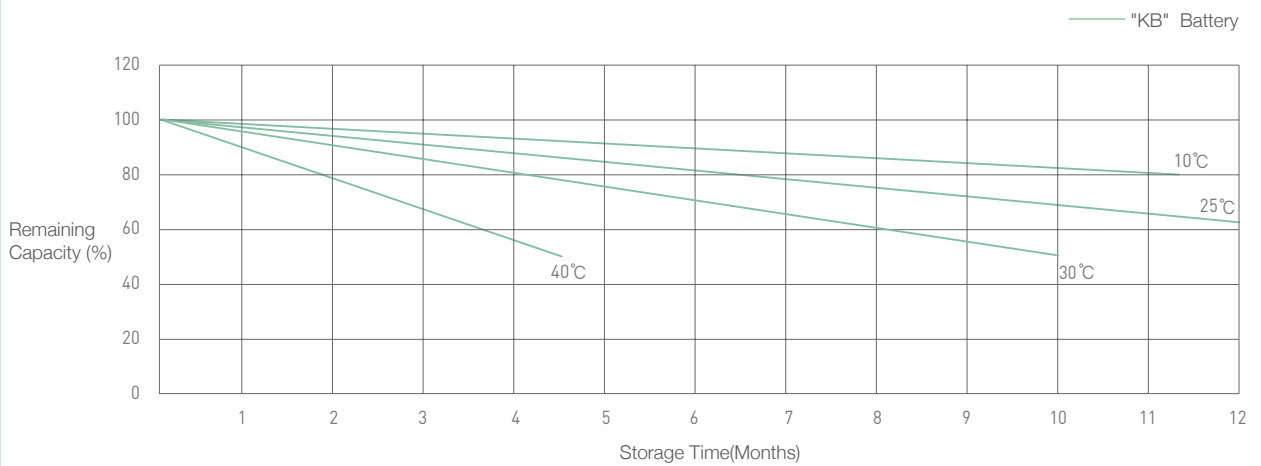
Type	Nominal Voltage (V)	Capacity(AH)				Dimension(mm)				Weight (kg)	Terminal
		20HR 1.75V/ Cell	10HR 1.75V/ Cell	5HR 1.60V/ Cell	1HR 1.60V/ Cell	Length	Width	Height	Total height		
KB80-12	12	83	80	73	52	330	172	210	231	27.0	
KB100-12	12	104	100	91	65	330	172	210	231	32.0	
KB150-12	12	156	150	137	98	519	269	203	224	56.0	
KB200-12	12	208	200	182	130	519	269	203	224	67.0	

Technical Data

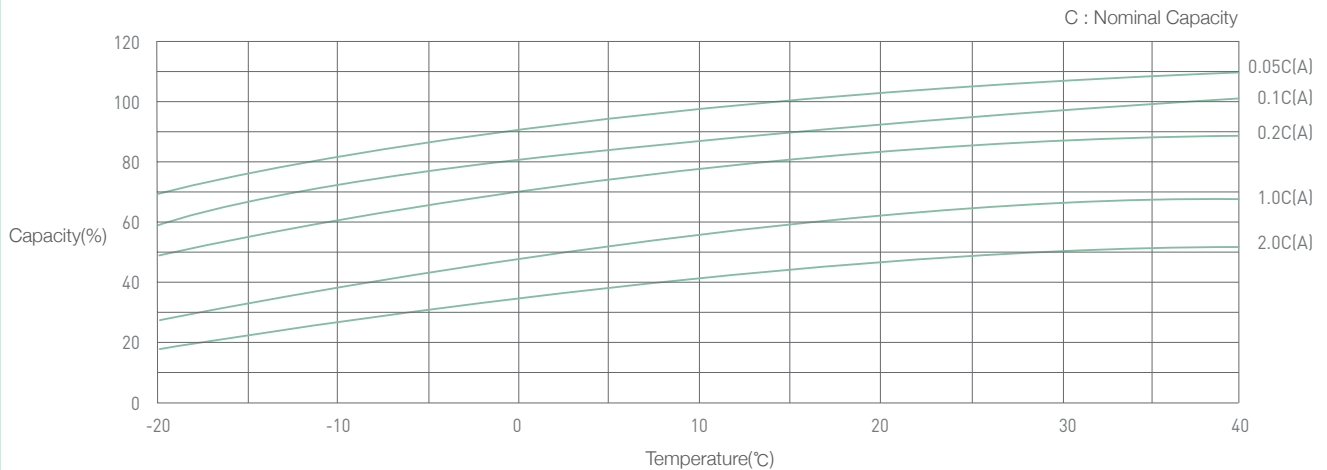
Discharge Characteristics



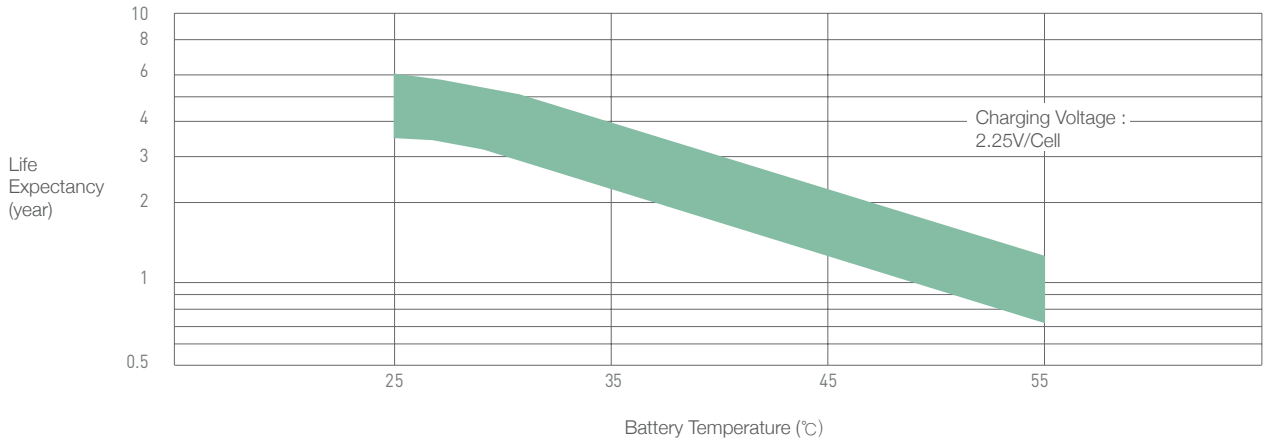
Self Discharge Characteristics



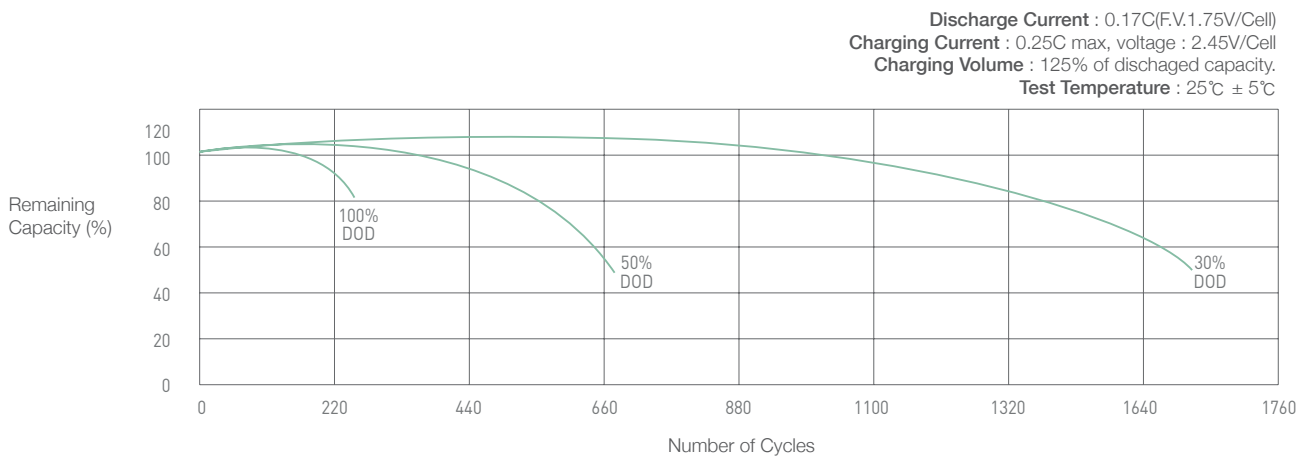
Temperature Effects on Capacity



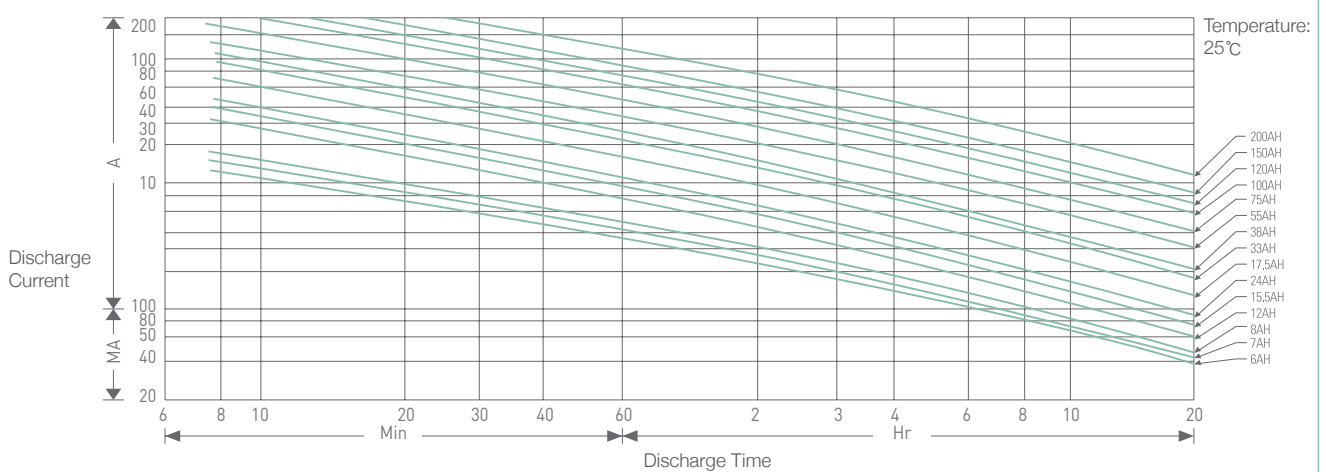
Life Characteristics by Temperature



Cycle Service Life

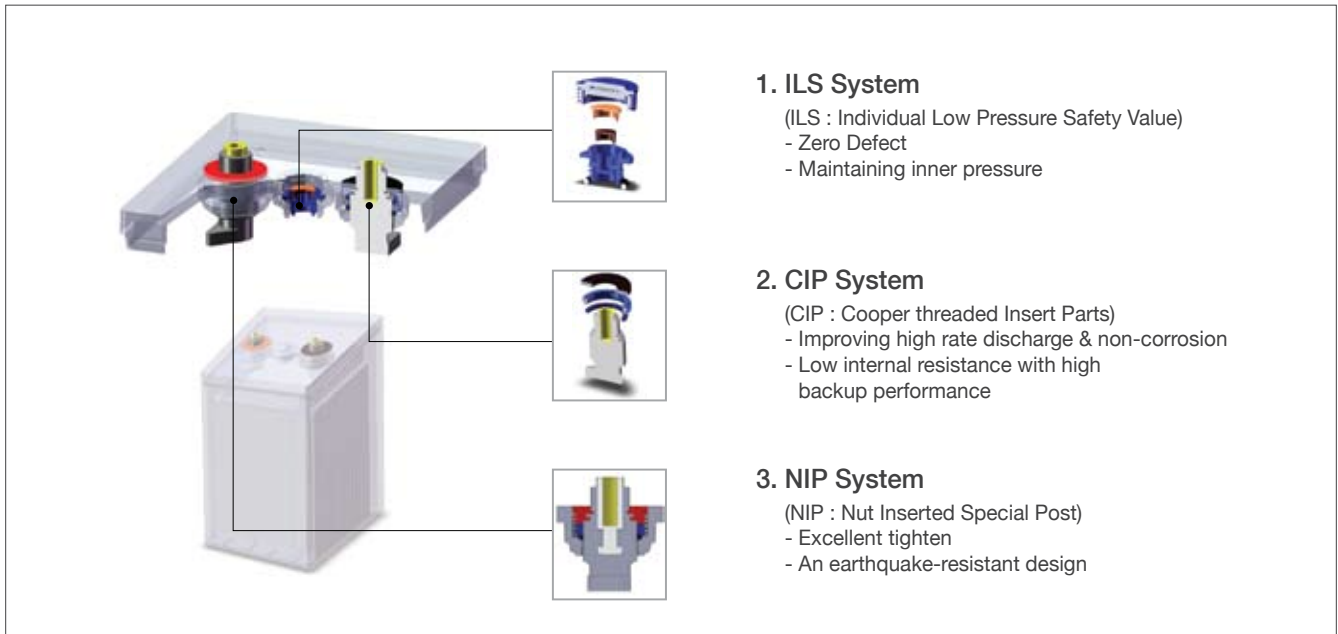


Battery Capacity Selection Chart(20hours rate basis)



KBA Series

Core Technology

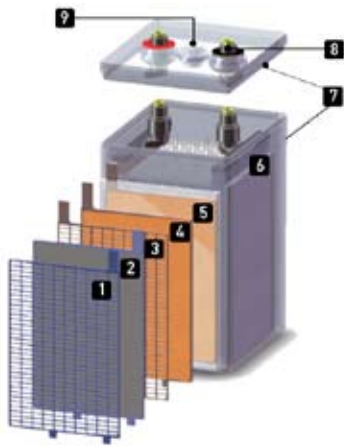


Product Benefits

- 1. Long Life Service**
 - Special patent silver alloy : Long life plate structure with excellent electric conductivity assures good recovery charge performance and deep discharge performance
 - Porosity AGM separator : Ensuring 5~7years design life under floating charge
- 2. High Performance**
 - High electrolyte density : Injecting electrolyte into the battery around vacuum
 - CU-Zn alloy terminal : Excellent high rate discharge performance
- 3. Safety**
 - Independent low pressure safety valve : No leak and explosion
 - Flame arrestor : Prevent fire and explosion from the outside
 - Container & Lid : Acid-resistant ABS material / Non-flammable material(optional)
 - 3 steps sealed structure : No electronic leaks from the inside of a battery
- 4. Equality**
 - High technology automatic facility : Realizing equality
 - 100% inspection and quality control before release : Stable voltage and internal resistance
- 5. Convenience**
 - Gas recombination : No need to refill electrolyte and check specific gravity.
 - Operating temperature range : -15°C~ 45°C
 - Long shelf life : over 6months

Application · UPS, EPS, Telecom, Power plant, Green energy(solar, wind, hydro), Emergency light

Specification

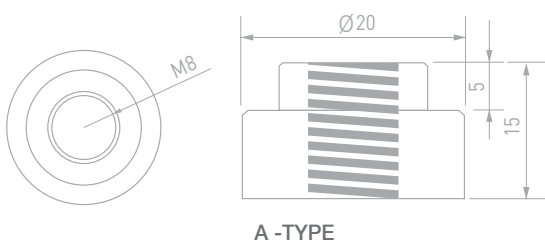


1. Special Negative Grid Alloy
2. Tank Formed Negative Plate
3. Special Positive Grid Alloy
4. Tank Formed Positive Plate
5. Advanced Absorbed Glass Mat
6. High Compressed Element Cell
7. Reinforced Flamed Retardant Plastics
8. Cooper Threaded Insert Parts
9. Low Pressure Self-Sealing Valve

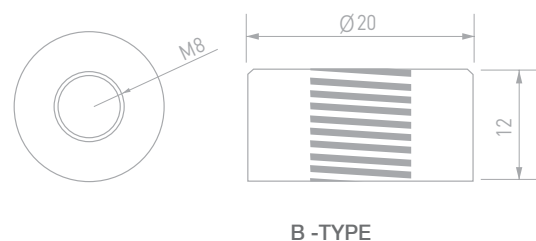
Specification

Type	Nominal Voltage (V)	Capacity(AH)					Dimension(mm)				Weight (kg)	Terminal
		10HR 1.80V /Cell	5HR 1.75V /Cell	3HR 1.70V /Cell	1HR 1.60V /Cell	0.5HR 1.60V /Cell	Length	Width	Height	Total height		
KBA2100	2	100	91	83	65	50	106	170	329	344	9	A
KBA2150	2	150	136	124	98	75	106	170	329	344	11	A
KBA2200	2	200	182	166	130	100	106	170	329	344	14	A
KBA2250	2	250	227	207	163	125	195	170	329	344	18	A
KBA2300	2	300	273	249	195	150	195	170	329	344	21	A
KBA2400	2	400	364	332	260	200	195	170	329	344	27	A
KBA2500	2	500	455	415	325	250	285	170	329	344	34	A
KBA2600	2	600	546	498	390	300	285	170	329	344	40	A
KBA2700	2	700	637	581	455	350	382	170	329	344	47	A
KBA2800	2	800	728	664	520	400	382	170	329	344	53	A
KBA2900	2	900	819	747	585	450	471	170	329	344	63	A
KBA21000	2	1000	910	830	650	500	471	170	329	344	69	A
KBA21200	2	1200	1092	996	780	600	471	170	329	344	70	A
KBA21400	2	1400	1274	1162	910	700	472	332	340	352	90	A
KBA21600	2	1600	1456	1328	1040	800	472	332	340	352	102	B
KBA21800	2	1800	1638	1494	1170	900	472	332	340	352	113	B
KBA22000	2	2000	1820	1660	1300	1000	472	332	340	352	125	B
KBA22200	2	2200	2002	1826	1430	1100	472	332	340	352	124	B
KBA22400	2	2400	2184	1992	1560	1200	472	332	340	352	134	B

A / B Terminal



A -TYPE

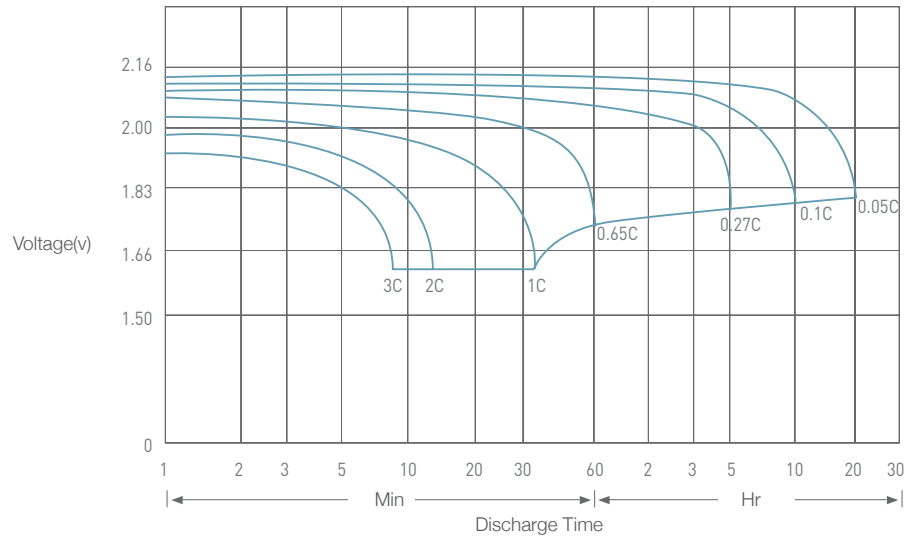


B -TYPE

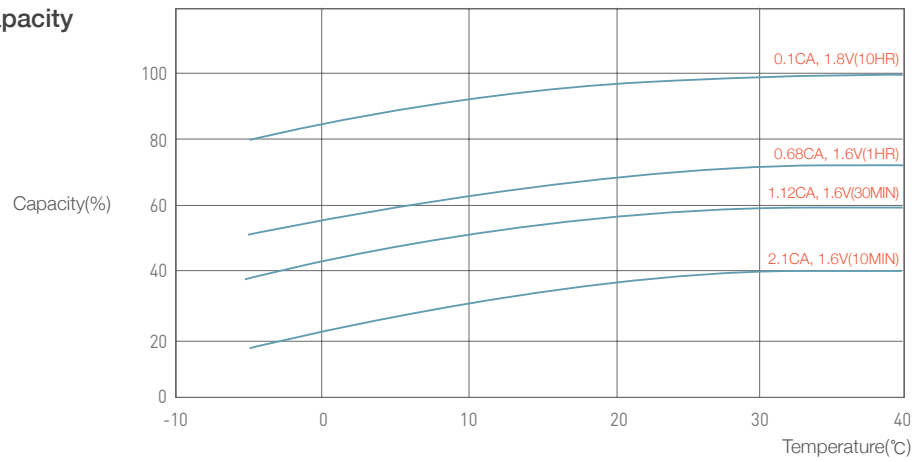
KBA Technical Data

Technical Data

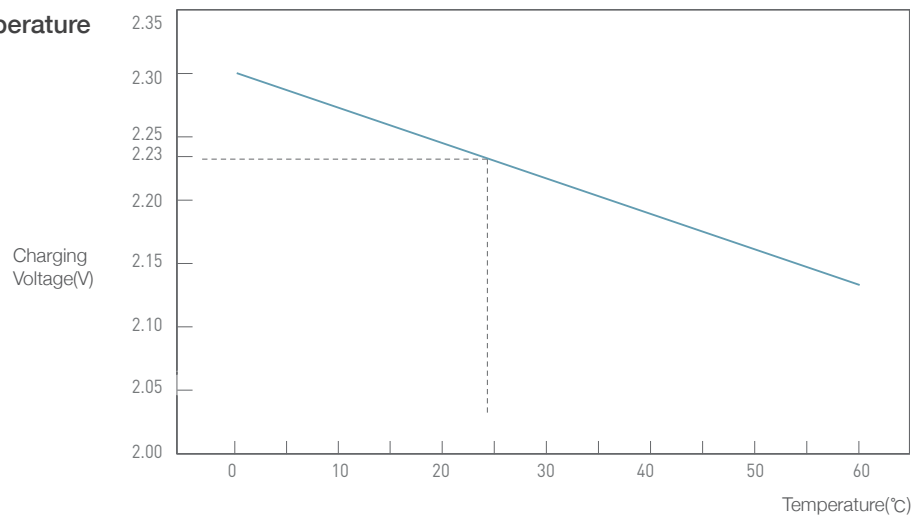
1. Discharge Characteristics



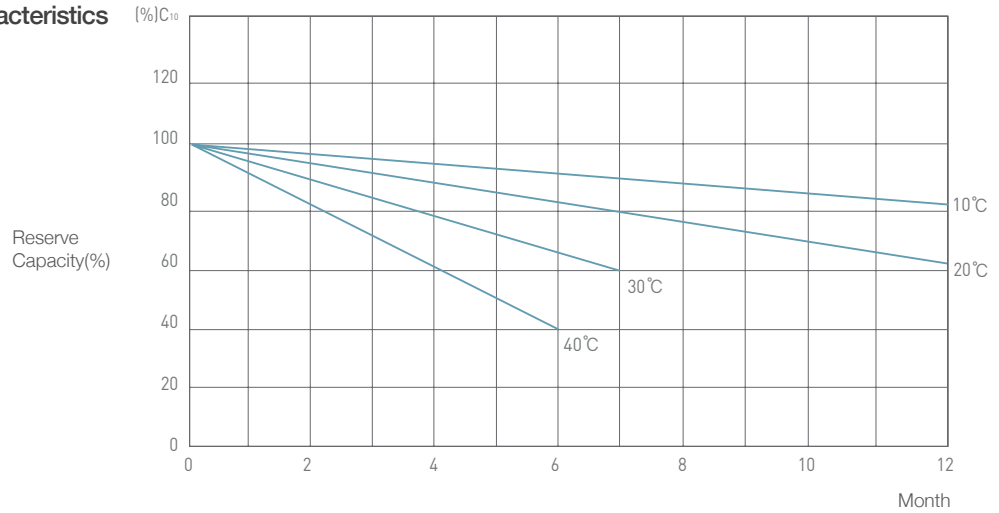
2. Temperature Effects on Capacity



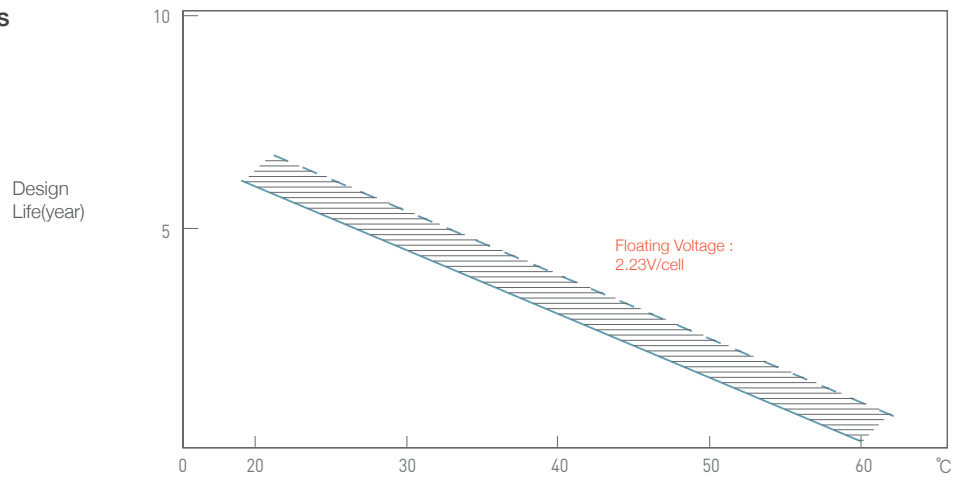
3. Charging Voltage per Temperature



4. Self Discharge Characteristics



5. Life Characteristics



KBA2200 Installation photo

Discharge Current per Final Voltage

Amperes to 1.85Volts per Cell

Type\Min	5	10	20	30	40	60	120	180	300	600
KBA2100	126.5	112.3	91.5	76.0	65.6	51.3	31.6	23.7	15.7	9.2
KBA2150	189.8	168.4	137.2	114.0	98.3	77.0	47.4	35.5	23.6	13.9
KBA2200	253.1	224.6	183.0	152.0	131.1	102.6	63.2	47.4	31.4	18.5
KBA2250	316.4	280.7	228.7	190.0	163.9	128.3	79.0	59.2	39.3	23.1
KBA2300	379.6	336.9	274.5	228.0	196.7	153.9	94.8	71.1	47.1	27.7
KBA2400	506.2	449.2	365.9	304.0	262.2	205.2	126.4	94.7	62.8	37.0
KBA2500	632.7	561.5	457.4	380.0	327.8	256.5	157.9	118.4	78.5	46.2
KBA2600	759.2	673.7	548.9	456.0	393.3	307.8	189.5	142.1	94.2	55.4
KBA2700	885.8	786.0	640.4	532.0	458.9	359.1	221.1	165.8	109.9	64.7
KBA2800	1012.3	898.3	731.9	608.0	524.4	410.4	252.7	189.5	125.6	73.9
KBA2900	1138.9	1010.6	823.4	684.0	590.0	461.7	284.3	213.2	141.4	83.2
KBA21000	1265.4	1122.9	914.9	760.0	655.5	513.0	315.9	236.9	157.1	92.4
KBA21200	1518.5	1347.5	1097.8	912.0	786.6	615.6	379.1	284.2	188.5	110.9
KBA21400	1771.6	1572.1	1280.8	1064.0	917.7	718.2	442.2	331.6	219.9	129.4
KBA21600	2024.6	1796.6	1463.8	1216.0	1048.8	820.8	505.4	379.0	251.3	147.9
KBA21800	2277.7	2021.2	1646.7	1368.0	1179.9	923.4	568.6	426.4	282.7	166.3
KBA22000	2530.8	2245.8	1829.7	1520.0	1311.0	1026.0	631.8	473.7	314.1	184.8
KBA22200	2783.9	2470.4	2012.7	1672.0	1442.1	1128.6	694.9	521.1	345.5	203.3
KBA22400	3037.0	2695.0	2195.6	1824.0	1573.2	1231.2	758.1	568.5	376.9	221.8

Amperes to 1.80Volts per Cell

Type\Min	5	10	20	30	40	60	120	180	300	600
KBA2100	168.7	143.1	108.9	89.5	74.4	57.4	34.4	25.7	17.1	10.0
KBA2150	253.1	214.6	163.3	134.2	111.6	86.1	51.7	38.5	25.6	15.0
KBA2200	337.4	286.1	217.7	179.0	148.8	114.8	68.9	51.3	34.2	20.0
KBA2250	421.8	357.7	272.2	223.7	186.0	143.5	86.1	64.1	42.7	25.0
KBA2300	506.2	429.2	326.6	268.5	223.2	172.1	103.3	77.0	51.3	30.0
KBA2400	674.9	572.3	435.5	358.0	297.5	229.5	137.8	102.6	68.4	40.0
KBA2500	843.6	715.4	544.4	447.5	371.9	286.9	172.2	128.3	85.4	50.0
KBA2600	1012.3	858.4	653.2	536.9	446.3	344.3	206.6	153.9	102.5	60.0
KBA2700	1181.0	1001.5	762.1	626.4	520.7	401.7	241.1	179.6	119.6	70.0
KBA2800	1349.8	1144.6	871.0	715.9	595.1	459.0	275.5	205.2	136.7	80.0
KBA2900	1518.5	1287.6	979.8	805.4	669.5	516.4	309.9	230.9	153.8	90.0
KBA21000	1687.2	1430.7	1088.7	894.9	743.9	573.8	344.4	256.5	170.9	100.0
KBA21200	2024.6	1716.8	1306.4	1073.9	892.6	688.6	413.3	307.8	205.1	120.0
KBA21400	2362.1	2003.0	1524.2	1252.9	1041.4	803.3	482.1	359.1	239.2	140.0
KBA21600	2699.5	2289.1	1741.9	1431.8	1190.2	918.1	551.0	410.4	273.4	160.0
KBA21800	3037.0	2575.3	1959.7	1610.8	1338.9	1032.8	619.9	461.7	307.6	180.0
KBA22000	3374.4	2861.4	2177.4	1789.8	1487.7	1147.6	688.8	513.0	341.8	200.0
KBA22200	3711.8	3147.5	2395.1	1968.8	1636.5	1262.4	757.6	564.3	375.9	220.0
KBA22400	4049.3	3433.7	2612.9	2147.8	1785.2	1377.1	826.5	615.6	410.1	240.0

Amperes to 1.75Volts per Cell

Type\Min	5	10	20	30	40	60	120	180	300	600
KBA2100	190.4	157.9	116.9	92.7	78.9	60.1	35.8	26.0	17.5	10.0
KBA2150	285.6	236.8	175.3	139.1	118.4	90.2	53.7	39.0	26.3	15.0
KBA2200	380.8	315.8	233.7	185.4	157.9	120.3	71.5	51.9	35.0	20.1
KBA2250	476.0	394.7	292.1	231.8	197.4	150.3	89.4	64.9	43.8	25.1
KBA2300	571.1	473.7	350.6	278.2	236.8	180.4	107.3	77.9	52.5	30.1
KBA2400	761.5	631.6	467.4	370.9	315.8	240.5	143.1	103.9	70.0	40.1
KBA2500	951.9	789.5	584.3	463.6	394.7	300.7	178.8	129.8	87.6	50.2
KBA2600	1142.3	947.3	701.1	556.3	473.7	360.8	214.6	155.8	105.1	60.2
KBA2700	1332.7	1105.2	818.0	649.0	552.6	420.9	250.4	181.8	122.6	70.2
KBA2800	1523.0	1263.1	934.8	741.8	631.6	481.1	286.1	207.7	140.1	80.2
KBA2900	1713.4	1421.0	1051.7	834.5	710.5	541.2	321.9	233.7	157.6	90.3
KBA21000	1903.8	1578.9	1168.5	927.2	789.5	601.4	357.7	259.7	175.1	100.3
KBA21200	2284.6	1894.7	1402.2	1112.6	947.3	721.6	429.2	311.6	210.1	120.4
KBA21400	2665.3	2210.5	1635.9	1298.1	1105.2	841.9	500.7	363.5	245.1	140.4
KBA21600	3046.1	2526.2	1869.6	1483.5	1263.1	962.2	572.3	415.5	280.2	160.5
KBA21800	3426.8	2842.0	2103.3	1669.0	1421.0	1082.4	643.8	467.4	315.2	180.5
KBA22000	3807.6	3157.8	2337.0	1854.4	1578.9	1202.7	715.4	519.3	350.2	200.6
KBA22200	4188.4	3473.6	2570.7	2039.8	1736.8	1323.0	786.9	571.3	385.2	220.7
KBA22400	4569.1	3789.4	2804.4	2225.3	1894.7	1443.2	858.4	623.2	420.2	240.7

Amperes to 1.70Volts per Cell

Type\Min	5	10	20	30	40	60	120	180	300	600
KBA2100	210.9	172.1	123.7	96.5	81.5	62.1	37.2	26.8	18.1	10.1
KBA2150	316.4	258.2	185.5	144.8	122.3	93.2	55.9	40.1	27.1	15.1
KBA2200	421.8	344.3	247.4	193.0	163.0	124.3	74.5	53.5	36.1	20.2
KBA2250	527.3	430.4	309.2	241.3	203.8	155.3	93.1	66.9	45.2	25.2
KBA2300	632.7	516.4	371.1	289.6	244.5	186.4	111.7	80.3	54.2	30.2
KBA2400	843.6	688.6	494.8	386.1	326.0	248.5	149.0	107.0	72.3	40.3
KBA2500	1054.5	860.7	618.5	482.6	407.6	310.7	186.2	133.8	90.3	50.4
KBA2600	1265.4	1032.8	742.1	579.1	489.1	372.8	223.4	160.5	108.4	60.5
KBA2700	1476.3	1205.0	865.8	675.6	570.6	434.9	260.7	187.3	126.5	70.6
KBA2800	1687.2	1377.1	989.5	772.2	652.1	497.0	297.9	214.1	144.5	80.6
KBA2900	1898.1	1549.3	1113.2	868.7	733.6	559.2	335.2	240.8	162.6	90.7
KBA21000	2109.0	1721.4	1236.9	965.2	815.1	621.3	372.4	267.6	180.7	100.8
KBA21200	2530.8	2065.7	1484.3	1158.2	978.1	745.6	446.9	321.1	216.8	121.0
KBA21400	2952.6	2410.0	1731.7	1351.3	1141.1	869.8	521.4	374.6	252.9	141.1
KBA21600	3374.4	2754.2	1979.0	1544.3	1304.2	994.1	595.8	428.1	289.1	161.3
KBA21800	3796.2	3098.5	2226.4	1737.4	1467.2	1118.3	670.3	481.6	325.2	181.4
KBA22000	4218.0	3442.8	2473.8	1930.4	1630.2	1242.6	744.8	535.2	361.3	201.6
KBA22200	4639.8	3787.1	2721.2	2123.4	1793.2	1366.9	819.3	588.7	397.5	221.8
KBA22400	5061.6	4131.4	2968.6	2316.5	1956.2	1491.1	893.8	642.2	433.6	241.9

Amperes to 1.65Volts per Cell

Type\Min	5	10	20	30	40	60	120	180	300	600
KBA2100	231.4	185.3	130.5	101.7	83.8	64.0	38.3	27.7	18.4	10.1
KBA2150	347.1	277.9	195.8	152.5	125.7	96.0	57.5	41.6	27.6	15.2
KBA2200	462.8	370.5	261.1	203.3	167.6	128.1	76.7	55.4	36.9	20.3
KBA2250	578.6	463.1	326.3	254.1	209.5	160.1	95.8	69.3	46.1	25.4
KBA2300	694.3	555.8	391.6	305.0	251.4	192.1	115.0	83.1	55.3	30.4
KBA2400	925.7	741.0	522.1	406.6	335.2	256.1	153.3	110.8	73.7	40.6
KBA2500	1157.1	926.3	652.7	508.3	419.0	320.2	191.7	138.5	92.2	50.7
KBA2600	1388.5	1111.5	783.2	609.9	502.7	384.2	230.0	166.3	110.6	60.9
KBA2700	1619.9	1296.8	913.7	711.6	586.5	448.2	268.3	194.0	129.0	71.0
KBA2800	1851.4	1482.0	1044.2	813.2	670.3	512.2	306.7	221.7	147.5	81.1
KBA2900	2082.8	1667.3	1174.8	914.9	754.1	576.3	345.0	249.4	165.9	91.3
KBA21000	2314.2	1852.5	1305.3	1016.5	837.9	640.3	383.3	277.1	184.3	101.4
KBA21200	2777.0	2223.0	1566.4	1219.8	1005.5	768.4	460.0	332.5	221.2	121.7
KBA21400	3239.9	2593.5	1827.4	1423.1	1173.1	896.4	536.7	387.9	258.0	142.0
KBA21600	3702.7	2964.0	2088.5	1626.4	1340.6	1024.5	613.3	443.3	294.9	162.3
KBA21800	4165.6	3334.5	2349.5	1829.7	1508.2	1152.5	690.0	498.8	331.8	182.6
KBA22000	4628.4	3705.0	2610.6	2033.0	1675.8	1280.6	766.7	554.2	368.6	202.9
KBA22200	5091.2	4075.5	2871.7	2236.3	1843.4	1408.7	843.3	609.6	405.5	223.1
KBA22400	5554.1	4446.0	3132.7	2439.6	2011.0	1536.7	920.0	665.0	442.4	243.4

Amperes to 1.60Volts per Cell

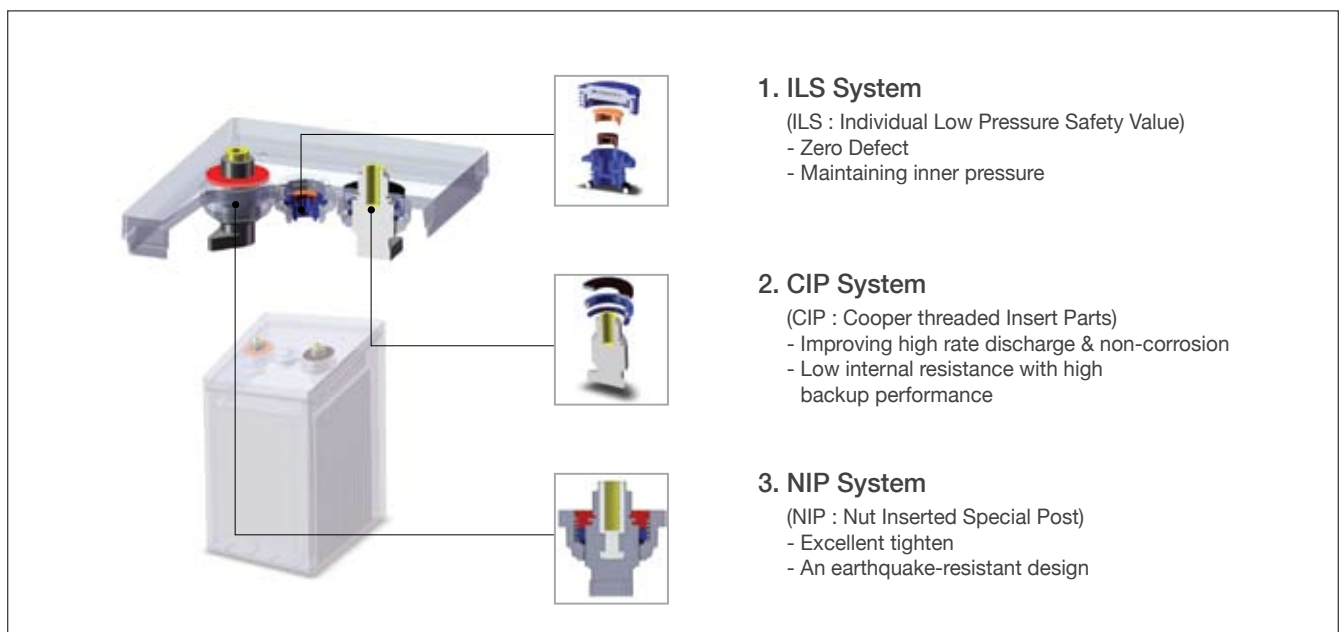
Type\Min	5	10	20	30	40	60	120	180	300	600
KBA2100	255.4	201.8	138.8	107.4	87.8	66.3	39.5	28.6	19.2	10.3
KBA2150	383.0	302.7	208.2	161.0	131.7	99.5	59.2	42.9	28.7	15.4
KBA2200	510.7	403.6	277.6	214.7	175.6	132.6	78.9	57.2	38.3	20.6
KBA2250	638.4	504.5	347.0	268.4	219.5	165.8	98.7	71.5	47.9	25.7
KBA2300	766.1	605.3	416.4	322.1	263.3	198.9	118.4	85.8	57.5	30.8
KBA2400	1021.4	807.1	555.2	429.4	351.1	265.2	157.9	114.4	76.6	41.1
KBA2500	1276.8	1008.9	694.0	536.8	438.9	331.6	197.4	143.0	95.8	51.4
KBA2600	1532.2	1210.7	832.8	644.1	526.7	397.9	236.8	171.6	115.0	61.7
KBA2700	1787.5	1412.5	971.6	751.5	614.5	464.2	276.3	200.2	134.1	72.0
KBA2800	2042.9	1614.2	1110.4	858.8	702.2	530.5	315.8	228.8	153.3	82.2
KBA2900	2298.2	1816.0	1249.2	966.2	790.0	596.8	355.3	257.4	172.5	92.5
KBA21000	2553.6	2017.8	1388.0	1073.5	877.8	663.1	394.7	286.0	191.6	102.8
KBA21200	3064.3	2421.4	1665.5	1288.2	1053.4	795.7	473.7	343.1	229.9	123.4
KBA21400	3575.0	2824.9	1943.1	1502.9	1228.9	928.3	552.6	400.3	268.3	143.9
KBA21600	4085.8	3228.5	2220.7	1717.6	1404.5	1061.0	631.6	457.5	306.6	164.5
KBA21800	4596.5	3632.0	2498.3	1932.3	1580.0	1193.6	710.5	514.7	344.9	185.0
KBA22000	5107.2	4035.6	2775.9	2147.0	1755.6	1326.2	789.5	571.9	383.2	205.6
KBA22200	5617.9	4439.2	3053.5	2361.7	1931.2	1458.8	868.4	629.1	421.6	226.2
KBA22400	6128.6	4842.7	3331.1	2576.4	2106.7	1591.4	947.3	686.3	459.9	246.7

KBX Series

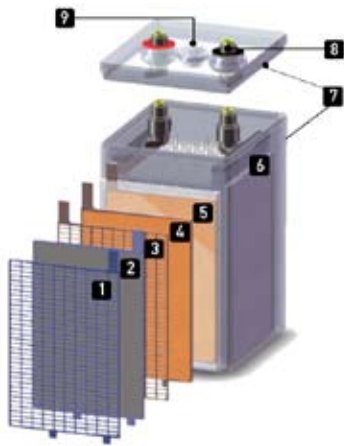
Product Benefits

- | | |
|-----------------------------|---|
| 1. Long Life Service | <ul style="list-style-type: none">· Special patent silver alloy : Long life plate structure with excellent electric conductivity assures good recovery charge performance and deep discharge performance· Porosity AGM separator : Ensuring 10~12years design life under floating charge |
| 2. High Performance | <ul style="list-style-type: none">· High electrolyte density : Injecting electrolyte into the battery around vacuum· CU-Zn alloy terminal : Excellent high rate discharge performance |
| 3. Safety | <ul style="list-style-type: none">· Independent low pressure safety valve : No leak and explosion· Flame arrestor : Prevent fire and explosion from the outside· Container & Lid : Acid-resistant ABS material / Non-flammable material(optional)· 3 steps sealed structure : No electronic leaks from the inside of a battery |
| 4. Equality | <ul style="list-style-type: none">· High technology automatic facility : Realizing equality· 100% inspection and quality control before release : Stable voltage and internal resistance |
| 5. Convenience | <ul style="list-style-type: none">· Gas recombination : No need to refill electrolyte and check specific gravity.· Operating temperature range : -15°C~ 45°C· Long shelf life : over 6months |
| Application | <ul style="list-style-type: none">· UPS, EPS, Telecom, Power plant, Green energy(solar, wind, hydro), Emergency light |

Core Technology



Specification

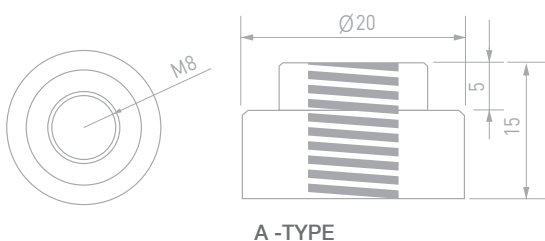


1. Special Negative Grid Alloy
2. Tank Formed Negative Plate
3. Special Positive Grid Alloy
4. Tank Formed Positive Plate
5. Advanced Absorbed Glass Mat
6. High Compressed Element Cell
7. Reinforced Flamed Retardant Plastics
8. Cooper Threaded Insert Parts
9. Low Pressure Self-Sealing Valve

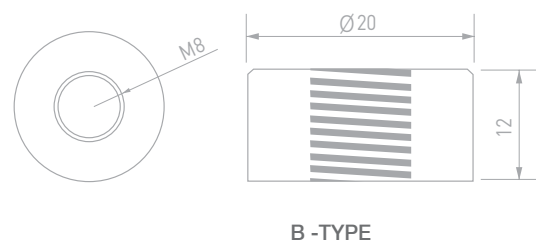
Specification

Type	Nominal Voltage (V)	Capacity(AH)					Dimension(mm)				Weight (kg)	Terminal
		10HR 1.80V /Cell	5HR 1.75V /Cell	3HR 1.70V /Cell	1HR 1.60V /Cell	0.5HR 1.60V /Cell	Length	Width	Height	Total height		
KBX2150	2	150	136	124	98	75	106	170	329	344	12	A
KBX2200	2	200	182	166	130	100	106	170	329	344	15	A
KBX2250	2	250	227	207	163	125	195	170	329	344	19	A
KBX2300	2	300	273	249	195	150	195	170	329	344	22	A
KBX2400	2	400	364	332	260	200	195	170	329	344	29	A
KBX2500	2	500	455	415	325	250	285	170	329	344	36	A
KBX2600	2	600	546	498	390	300	285	170	329	344	43	A
KBX2700	2	700	637	581	455	350	382	170	329	344	51	A
KBX2800	2	800	728	664	520	400	382	170	329	344	60	A
KBX2900	2	900	819	747	585	450	471	170	329	344	66	A
KBX21000	2	1000	910	830	650	500	471	170	329	344	72	A
KBX21200	2	1200	1092	996	780	600	471	170	329	344	73	A
KBX21400	2	1400	1274	1162	910	700	472	332	340	352	96	B
KBX21600	2	1600	1456	1328	1040	800	472	332	340	352	107	B
KBX21800	2	1800	1638	1494	1170	900	472	332	340	352	119	B
KBX22000	2	2000	1820	1660	1300	1000	472	332	340	352	131	B

A / B Terminal



A -TYPE

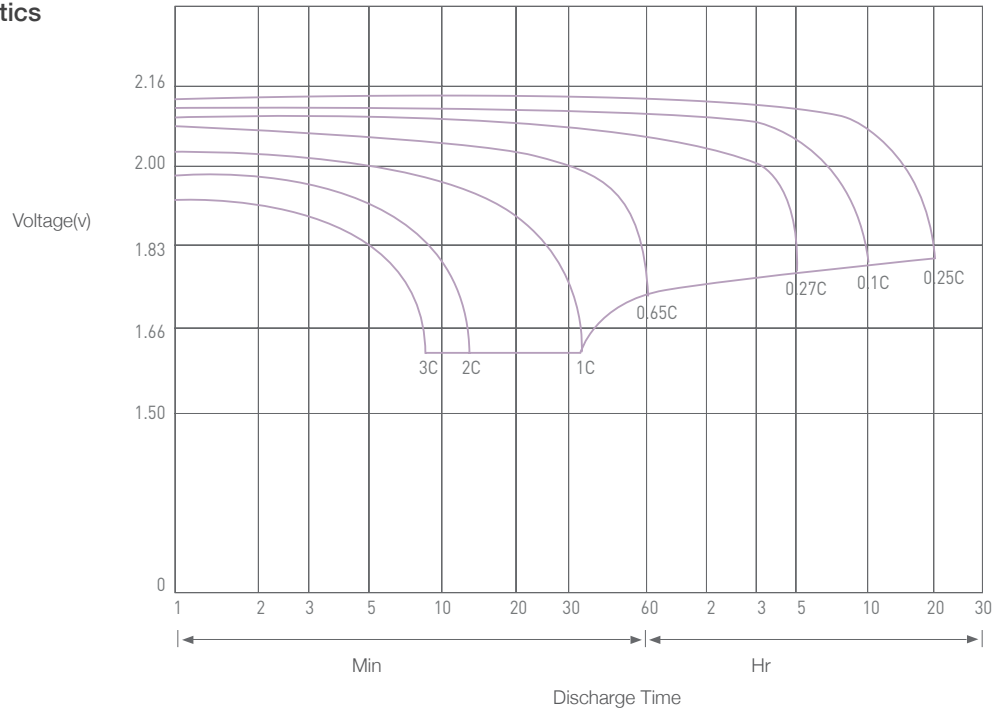


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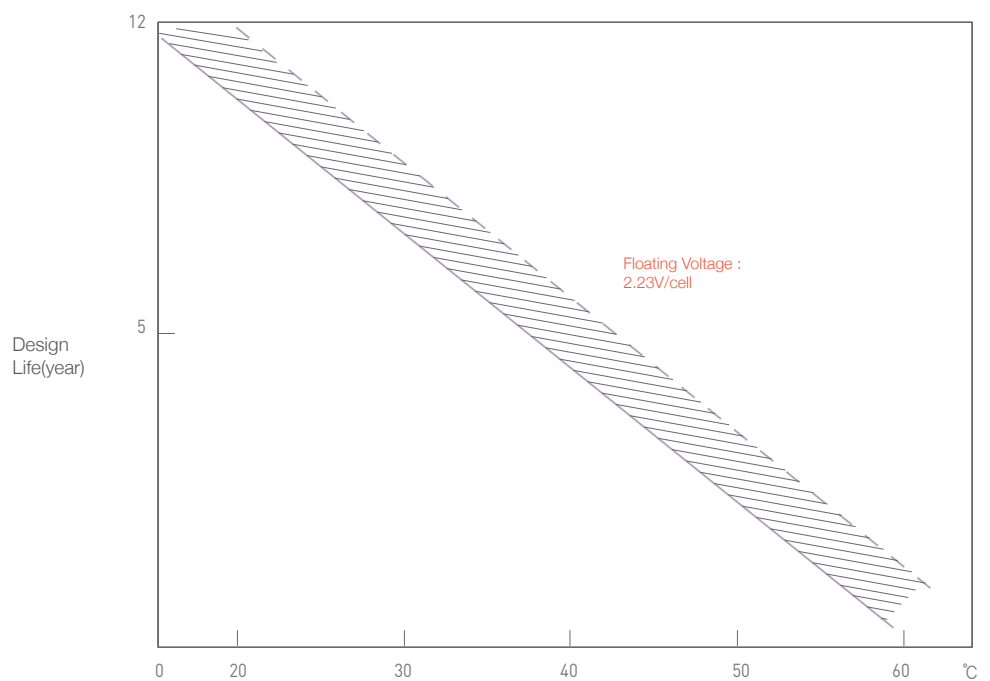
KBX Technical Data

Technical Data

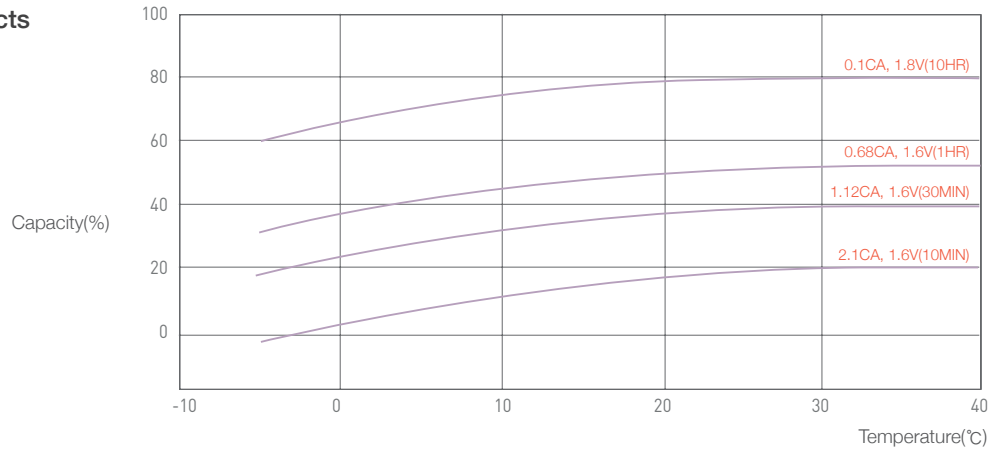
1. Discharge Characteristics



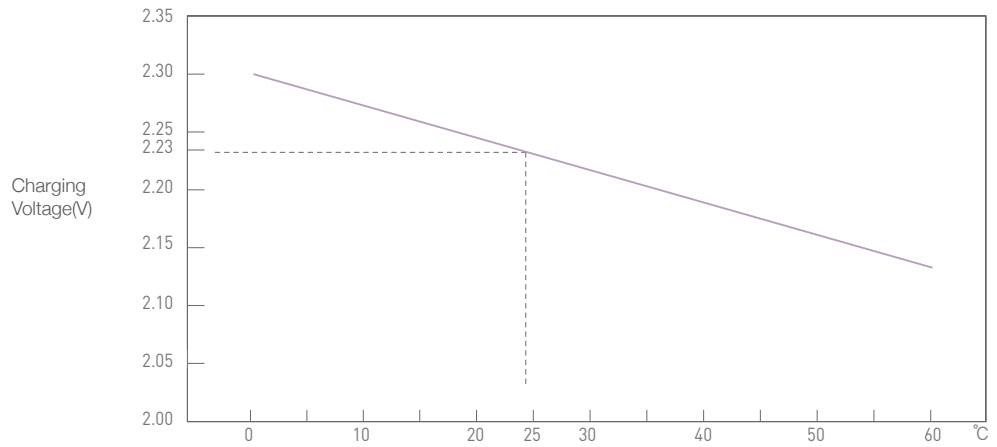
2. Life Characteristics



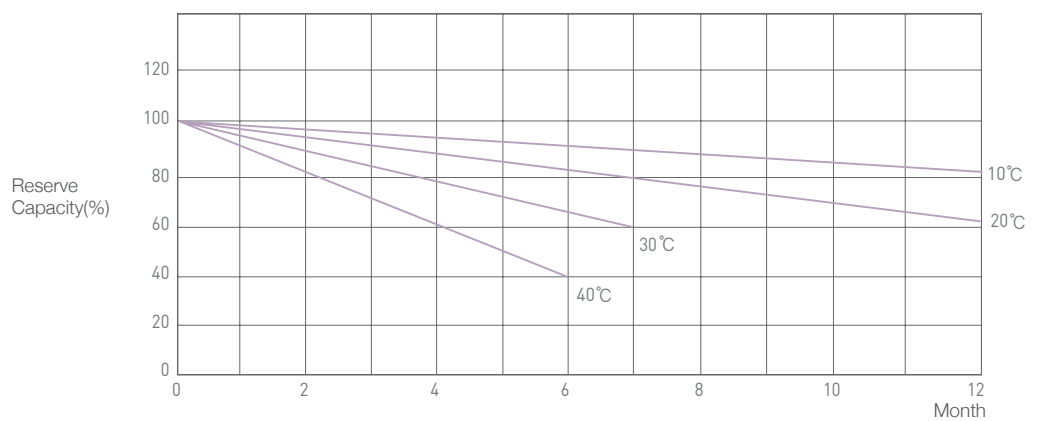
3. Temperature Effects on Capacity



4. Charging Voltage per Temperature



5. Self Discharge Characteristics



Discharge Current per Final Voltage

Amperes to 1.85Volts per Cell

Type\Min	5	10	20	30	40	60	120	180	300	600
KBX2150	199.8	177.3	144.5	120.0	103.5	81.0	49.9	37.4	24.5	14.1
KBX2200	266.4	236.4	192.6	160.0	138.0	108.0	66.5	49.9	32.7	18.9
KBX2250	333.0	295.5	240.8	200.0	172.5	135.0	83.1	62.3	40.9	23.6
KBX2300	399.6	354.6	288.9	240.0	207.0	162.0	99.8	74.8	49.1	28.3
KBX2400	532.8	472.8	385.2	320.0	276.0	216.0	133.0	99.7	65.4	37.7
KBX2500	666.0	591.0	481.5	400.0	345.0	270.0	166.3	124.7	81.8	47.2
KBX2600	799.2	709.2	577.8	480.0	414.0	324.0	199.5	149.6	98.2	56.6
KBX2700	932.4	827.4	674.1	560.0	483.0	378.0	232.8	174.5	114.5	66.0
KBX2800	1065.6	945.6	770.4	640.0	552.0	432.0	266.0	199.5	130.9	75.4
KBX2900	1198.8	1063.8	866.7	720.0	621.0	486.0	299.3	224.4	147.2	84.9
KBX21000	1332.0	1182.0	963.0	800.0	690.0	540.0	332.5	249.3	163.6	94.3
KBX21200	1598.4	1418.4	1155.6	960.0	828.0	648.0	399.0	299.2	196.3	113.2
KBX21400	1864.8	1654.8	1348.2	1120.0	966.0	756.0	465.5	349.1	229.0	132.0
KBX21600	2131.2	1891.2	1540.8	1280.0	1104.0	864.0	532.0	398.9	261.8	150.9
KBX21800	2397.6	2127.6	1733.4	1440.0	1242.0	972.0	598.5	448.8	294.5	169.7
KBX22000	2664.0	2364.0	1926.0	1600.0	1380.0	1080.0	665.0	498.7	327.2	188.6
KBX22000	2530.8	2245.8	1829.7	1520.0	1311.0	1026.0	631.8	473.7	314.1	184.8
KBX22200	2783.9	2470.4	2012.7	1672.0	1442.1	1128.6	694.9	521.1	345.5	203.3

Amperes to 1.80Volts per Cell

Type\Min	5	10	20	30	40	60	120	180	300	600
KBX2150	266.4	225.9	171.9	141.3	117.5	90.6	54.4	40.5	26.7	15.0
KBX2200	355.2	301.2	229.2	188.4	156.6	120.8	72.5	54.0	35.6	20.0
KBX2250	444.0	376.5	286.5	235.5	195.8	151.0	90.6	67.5	44.5	25.0
KBX2300	532.8	451.8	343.8	282.6	234.9	181.2	108.8	81.0	53.4	30.0
KBX2400	710.4	602.4	458.4	376.8	313.2	241.6	145.0	108.0	71.2	40.0
KBX2500	888.0	753.0	573.0	471.0	391.5	302.0	181.3	135.0	89.0	50.0
KBX2600	1065.6	903.6	687.6	565.2	469.8	362.4	217.5	162.0	106.8	60.0
KBX2700	1243.2	1054.2	802.2	659.4	548.1	422.8	253.8	189.0	124.6	70.0
KBX2800	1420.8	1204.8	916.8	753.6	626.4	483.2	290.0	216.0	142.4	80.0
KBX2900	1598.4	1355.4	1031.4	847.8	704.7	543.6	326.3	243.0	160.2	90.0
KBX21000	1776.0	1506.0	1146.0	942.0	783.0	604.0	362.5	270.0	178.0	100.0
KBX21200	2131.2	1807.2	1375.2	1130.4	939.6	724.8	435.0	324.0	213.6	120.0
KBX21400	2486.4	2108.4	1604.4	1318.8	1096.2	845.6	507.5	378.0	249.2	140.0
KBX21600	2841.6	2409.6	1833.6	1507.2	1252.8	966.4	580.0	432.0	284.8	160.0
KBX21800	3196.8	2710.8	2062.8	1695.6	1409.4	1087.2	652.5	486.0	320.4	180.0
KBX22000	3552.0	3012.0	2292.0	1884.0	1566.0	1208.0	725.0	540.0	356.0	200.0
KBX22000	2530.8	2245.8	1829.7	1520.0	1311.0	1026.0	631.8	473.7	314.1	184.8
KBX22200	2783.9	2470.4	2012.7	1672.0	1442.1	1128.6	694.9	521.1	345.5	203.3

Amperes to 1.75Volts per Cell

Type\Min	5	10	20	30	40	60	120	180	300	600
KBX2150	300.6	249.3	184.5	146.4	124.7	95.0	56.5	41.0	27.4	15.1
KBX2200	400.8	332.4	246.0	195.2	166.2	126.6	75.3	54.7	36.5	20.2
KBX2250	501.0	415.5	307.5	244.0	207.8	158.3	94.1	68.3	45.6	25.2
KBX2300	601.2	498.6	369.0	292.8	249.3	189.9	113.0	82.0	54.7	30.2
KBX2400	801.6	664.8	492.0	390.4	332.4	253.2	150.6	109.3	73.0	40.3
KBX2500	1002.0	831.0	615.0	488.0	415.5	316.5	188.3	136.7	91.2	50.4
KBX2600	1202.4	997.2	738.0	585.6	498.6	379.8	225.9	164.0	109.4	60.5
KBX2700	1402.8	1163.4	861.0	683.2	581.7	443.1	263.6	191.3	127.7	70.6
KBX2800	1603.2	1329.6	984.0	780.8	664.8	506.4	301.2	218.7	145.9	80.6
KBX2900	1803.6	1495.8	1107.0	878.4	747.9	569.7	338.9	246.0	164.2	90.7
KBX21000	2004.0	1662.0	1230.0	976.0	831.0	633.0	376.5	273.3	182.4	100.8
KBX21200	2404.8	1994.4	1476.0	1171.2	997.2	759.6	451.8	328.0	218.9	121.0
KBX21400	2805.6	2326.8	1722.0	1366.4	1163.4	886.2	527.1	382.7	255.4	141.1
KBX21600	3206.4	2659.2	1968.0	1561.6	1329.6	1012.8	602.4	437.3	291.8	161.3
KBX21800	3607.2	2991.6	2214.0	1756.8	1495.8	1139.4	677.7	492.0	328.3	181.4
KBX22000	4008.0	3324.0	2460.0	1952.0	1662.0	1266.0	753.0	546.7	364.8	201.6
KBX22000	2530.8	2245.8	1829.7	1520.0	1311.0	1026.0	631.8	473.7	314.1	184.8
KBX22200	2783.9	2470.4	2012.7	1672.0	1442.1	1128.6	694.9	521.1	345.5	203.3

Amperes to 1.70Volts per Cell

Type\Min	5	10	20	30	40	60	120	180	300	600
KBX2150	333.0	271.8	195.3	152.4	128.7	98.1	58.8	42.2	28.2	15.3
KBX2200	444.0	362.4	260.4	203.2	171.6	130.8	78.4	56.3	37.6	20.3
KBX2250	555.0	453.0	325.5	254.0	214.5	163.5	98.0	70.4	47.1	25.4
KBX2300	666.0	543.6	390.6	304.8	257.4	196.2	117.6	84.5	56.5	30.5
KBX2400	888.0	724.8	520.8	406.4	343.2	261.6	156.8	112.7	75.3	40.7
KBX2500	1110.0	906.0	651.0	508.0	429.0	327.0	196.0	140.8	94.1	50.9
KBX2600	1332.0	1087.2	781.2	609.6	514.8	392.4	235.2	169.0	112.9	61.0
KBX2700	1554.0	1268.4	911.4	711.2	600.6	457.8	274.4	197.2	131.7	71.2
KBX2800	1776.0	1449.6	1041.6	812.8	686.4	523.2	313.6	225.3	150.6	81.4
KBX2900	1998.0	1630.8	1171.8	914.4	772.2	588.6	352.8	253.5	169.4	91.5
KBX21000	2220.0	1812.0	1302.0	1016.0	858.0	654.0	392.0	281.7	188.2	101.7
KBX21200	2664.0	2174.4	1562.4	1219.2	1029.6	784.8	470.4	338.0	225.8	122.0
KBX21400	3108.0	2536.8	1822.8	1422.4	1201.2	915.6	548.8	394.3	263.5	142.4
KBX21600	3552.0	2899.2	2083.2	1625.6	1372.8	1046.4	627.2	450.7	301.1	162.7
KBX21800	3996.0	3261.6	2343.6	1828.8	1544.4	1177.2	705.6	507.0	338.8	183.1
KBX22000	4440.0	3624.0	2604.0	2032.0	1716.0	1308.0	784.0	563.3	376.4	203.4
KBX22000	2530.8	2245.8	1829.7	1520.0	1311.0	1026.0	631.8	473.7	314.1	184.8
KBX22200	2783.9	2470.4	2012.7	1672.0	1442.1	1128.6	694.9	521.1	345.5	203.3

Amperes to 1.65Volts per Cell

Type\Min	5	10	20	30	40	60	120	180	300	600
KBX2150	365.4	292.5	206.1	160.5	132.3	101.1	60.5	43.8	28.8	15.5
KBX2200	487.2	390.0	274.8	214.0	176.4	134.8	80.7	58.3	38.4	20.7
KBX2250	609.0	487.5	343.5	267.5	220.5	168.5	100.9	72.9	48.0	25.9
KBX2300	730.8	585.0	412.2	321.0	264.6	202.2	121.1	87.5	57.6	31.1
KBX2400	974.4	780.0	549.6	428.0	352.8	269.6	161.4	116.7	76.8	41.4
KBX2500	1218.0	975.0	687.0	535.0	441.0	337.0	201.8	145.8	96.0	51.8
KBX2600	1461.6	1170.0	824.4	642.0	529.2	404.4	242.1	175.0	115.2	62.1
KBX2700	1705.2	1365.0	961.8	749.0	617.4	471.8	282.5	204.2	134.4	72.5
KBX2800	1948.8	1560.0	1099.2	856.0	705.6	539.2	322.8	233.3	153.6	82.8
KBX2900	2192.4	1755.0	1236.6	963.0	793.8	606.6	363.2	262.5	172.8	93.2
KBX21000	2436.0	1950.0	1374.0	1070.0	882.0	674.0	403.5	291.7	192.0	103.5
KBX21200	2923.2	2340.0	1648.8	1284.0	1058.4	808.8	484.2	350.0	230.4	124.2
KBX21400	3410.4	2730.0	1923.6	1498.0	1234.8	943.6	564.9	408.3	268.8	144.9
KBX21600	3897.6	3120.0	2198.4	1712.0	1411.2	1078.4	645.6	466.7	307.2	165.6
KBX21800	4384.8	3510.0	2473.2	1926.0	1587.6	1213.2	726.3	525.0	345.6	186.3
KBX22000	4872.0	3900.0	2748.0	2140.0	1764.0	1348.0	807.0	583.3	384.0	207.0
KBX22000	2530.8	2245.8	1829.7	1520.0	1311.0	1026.0	631.8	473.7	314.1	184.8
KBX22200	2783.9	2470.4	2012.7	1672.0	1442.1	1128.6	694.9	521.1	345.5	203.3

Amperes to 1.60Volts per Cell

Type\Min	5	10	20	30	40	60	120	180	300	600
KBX2150	403.2	318.6	219.2	169.5	138.6	104.7	62.3	45.2	29.9	15.7
KBX2200	537.6	424.8	292.2	226.0	184.8	139.6	83.1	60.2	39.9	21.0
KBX2250	672.0	531.0	365.3	282.5	231.0	174.5	103.9	75.3	49.9	26.2
KBX2300	806.4	637.2	438.3	339.0	277.2	209.4	124.7	90.3	59.9	31.5
KBX2400	1075.2	849.6	584.4	452.0	369.6	279.2	166.2	120.4	79.8	42.0
KBX2500	1344.0	1062.0	730.5	565.0	462.0	349.0	207.8	150.5	99.8	52.5
KBX2600	1612.8	1274.4	876.6	678.0	554.4	418.8	249.3	180.6	119.8	62.9
KBX2700	1881.6	1486.8	1022.7	791.0	646.8	488.6	290.9	210.7	139.7	73.4
KBX2800	2150.4	1699.2	1168.8	904.0	739.2	558.4	332.4	240.8	159.7	83.9
KBX2900	2419.2	1911.6	1314.9	1017.0	831.6	628.2	374.0	270.9	179.6	94.4
KBX21000	2688.0	2124.0	1461.0	1130.0	924.0	698.0	415.5	301.0	199.6	104.9
KBX21200	3225.6	2548.8	1753.2	1356.0	1108.8	837.6	498.6	361.2	239.5	125.9
KBX21400	3763.2	2973.6	2045.4	1582.0	1293.6	977.2	581.7	421.4	279.4	146.9
KBX21600	4300.8	3398.4	2337.6	1808.0	1478.4	1116.8	664.8	481.6	319.4	167.8
KBX21800	4838.4	3823.2	2629.8	2034.0	1663.2	1256.4	747.9	541.8	359.3	188.8
KBX22000	5376.0	4248.0	2922.0	2260.0	1848.0	1396.0	831.0	602.0	399.2	209.8
KBX22000	2530.8	2245.8	1829.7	1520.0	1311.0	1026.0	631.8	473.7	314.1	184.8
KBX22200	2783.9	2470.4	2012.7	1672.0	1442.1	1128.6	694.9	521.1	345.5	203.3