

SUPER MAINTENANCE FREE BATTERY

K-VIRON

PREMIUM SMF BATTERY

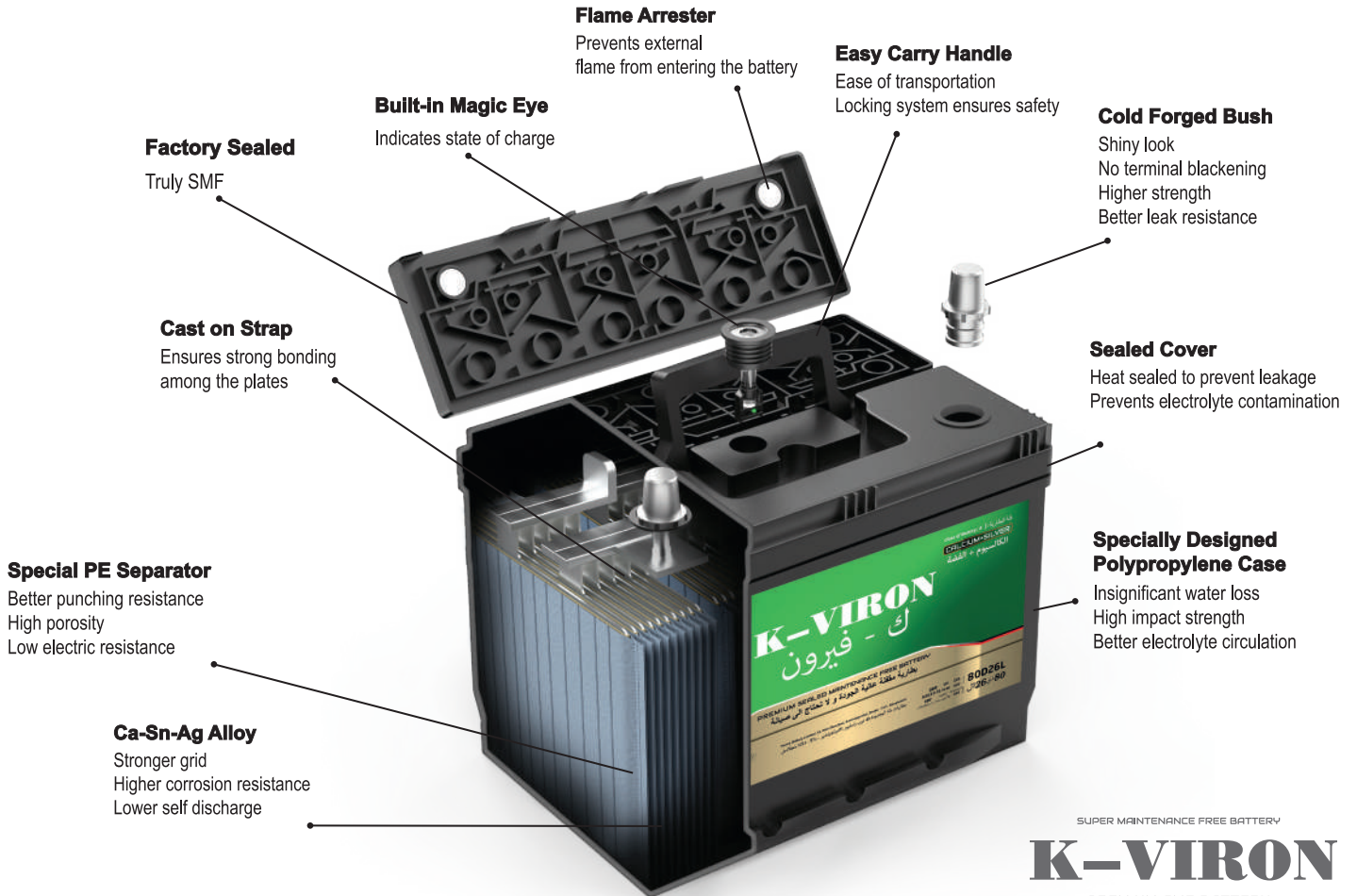
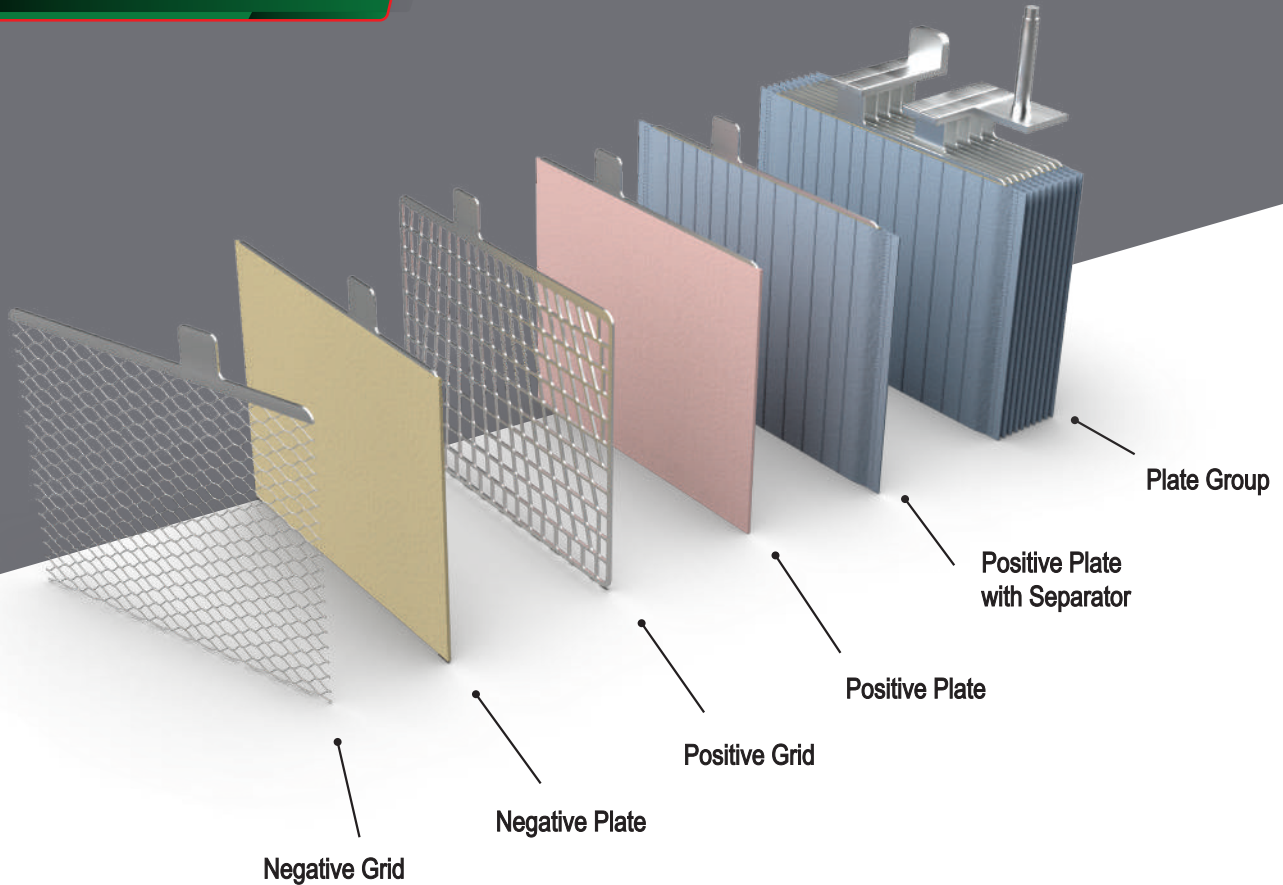


GERMAN
TECHNOLOGY

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PANNA
GROUP

BATTERY Components



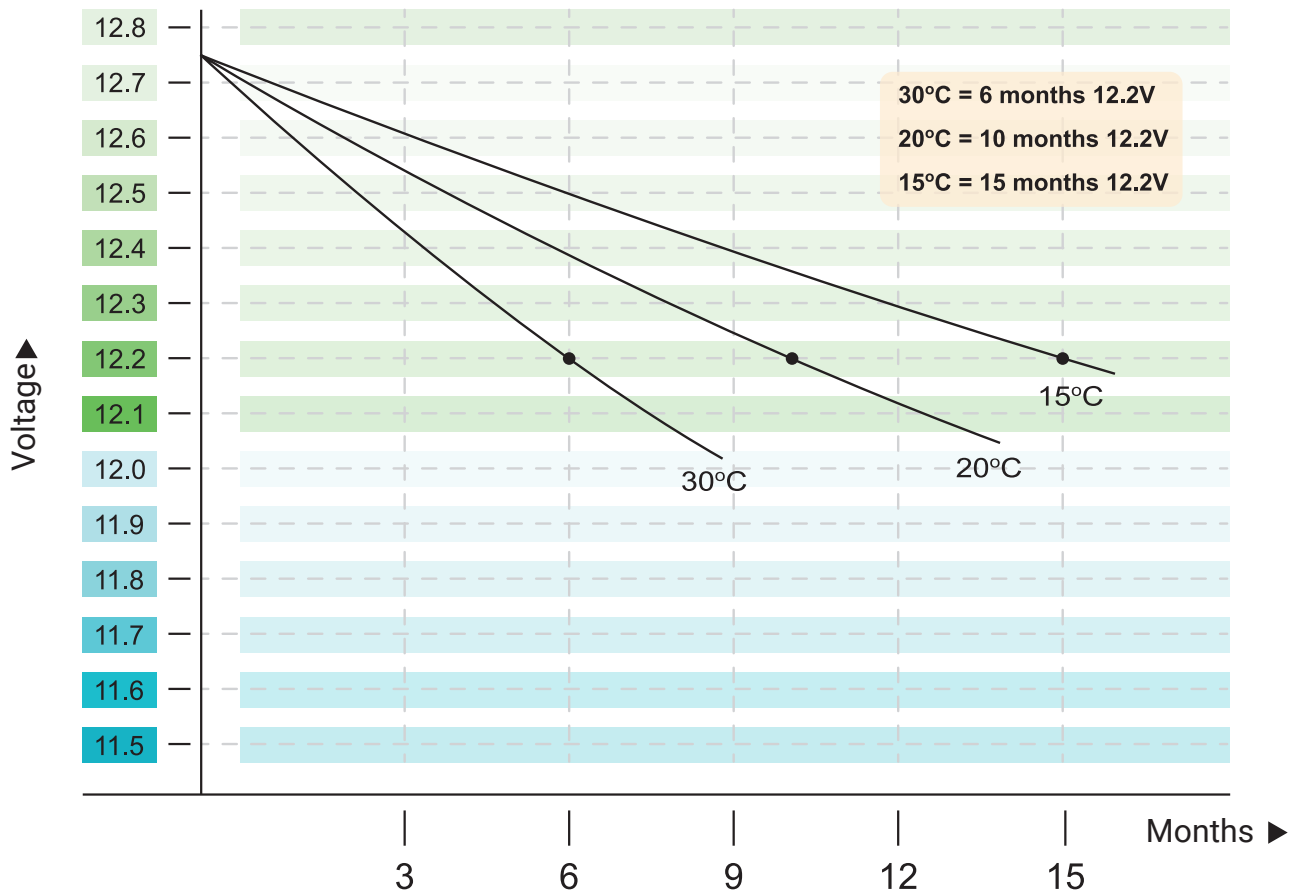
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Features

Self discharge of Pb-Ca battery



Recharge if OCV below 12.2V



Cold Forged Bush (Hoffman)

- ✓ Shiny look
- ✓ No terminal blackening
- ✓ Higher strength
- ✓ Better leak resistance
- ✓ Smooth surface
- ✓ Improved grain structure

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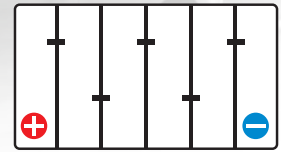
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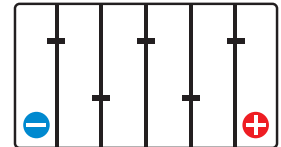
JIS

Japanese Industrial Standards

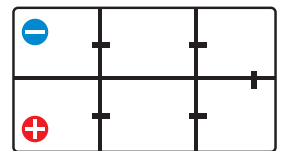
Cell Layout



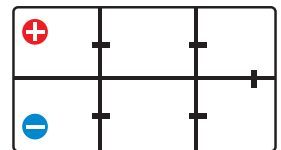
Layout 1



Layout 0



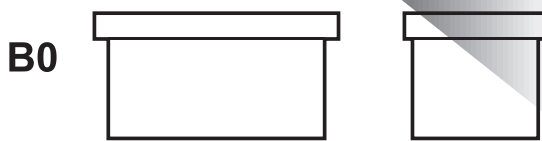
Layout 4



Layout 3



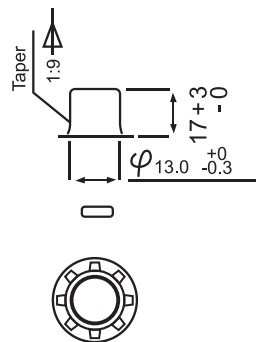
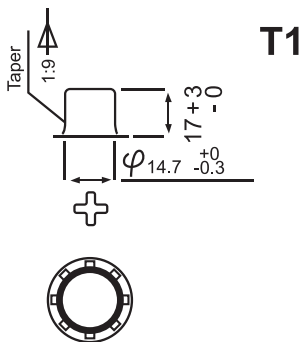
Bottom Hold



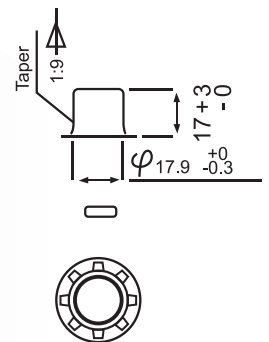
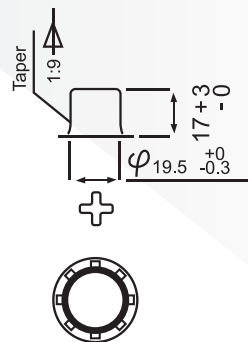
B1



10.5mm on long sides only



T2



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Technical Specification
JIS-PC

Container	New JIS	Old JIS	Dimension (mm)				Capacity AH @ 20	RC	CCA	Cell Layout	Terminal	Bottom Hold
			L	W	H	TH						
B19	38B19R/L	NS40/L	185	127	200	220	32	41	280	1/0	T1	B0/B1
	38B19RS/LS	NS40S/LS	185	127	200	220	35	41	280	1/0	T1	B0/B1
	40B19R/L	NS40Z/L	185	127	200	220	35	53	310	1/0	T1	B0/B1
B24	45B24R/L	N40/L	234	127	200	220	40	60	390	1/0	T1	B0/B1
	45B24RS/LS	N40S/LS	234	127	200	220	40	60	390	1/0	T2	B0/B1
	50B24R/L	NS60/L	234	127	200	220	45	70	420	1/0	T1	B0/B1
	50B24RS/LS	NS60S/LS	234	127	200	220	45	70	420	1/0	T2	B0/B1
D23	55D23R/L	55D23R/L	230	172	200	220	60	93	500	1/0	T2	B0/B1
	85D23R/L	85D23R/L	230	172	200	220	68	110	600	1/0	T2	B0/B1
D26	48D26R/L	N50/L	257	172	200	220	50	80	480	1/0	T2	B0/B1
	60D26R/L	N50Z/L	257	172	200	220	60	93	520	1/0	T2	B0/B1
	65D26R/L	NS70/L	257	172	200	220	65	103	580	1/0	T2	B0/B1
	80D26R/L	NX110-5/L	257	172	200	220	70	103	600	1/0	T2	B0/B1
D31	65D31R/L	N70/L	302	172	200	220	70	112	610	1/0	T2	B0/B1
	90D31R/L	N70Z/L	302	172	200	220	75	122	630	1/0	T2	B0/B1
	95D31R/L	NX120-7/L	302	172	200	220	80	131	720	1/0	T2	B0/B1
	105D31R/L	N90/L	302	172	200	220	90	150	790	1/0	T2	B0/B1
	115D31R/L	115D31R/L	302	172	200	220	90	155	800	1/0	T2	B0/B1

JIS-CV

Container	New JIS	Old JIS	Dimension (mm)				Capacity AH @ 20	RC	CCA	Cell Layout	Terminal	Bottom Hold
			L	W	H	TH						
E41	115E41R/L	N100/L	400	171	200	220	100	171	650	1/0	T2	B0
F51	135F51R/L	N120/L	505	172	210	230	120	212	750	4/3	T2	B0
	150F51R/L	N135/L	505	172	210	230	135	234	810	4/3	T2	B0
G51	185G51R/L	N150/L	505	212	210	230	150	276	920	4/3	T2	B0
	195G51R/L	N170/L	505	212	210	230	170	315	980	4/3	T2	B0
H52	210H52R/L	N180/L	509	274	217	237	180	350	1050	4/3	T2	B0
	225H52R/L	N200/L	509	274	217	237	200	387	1110	4/3	T2	B0
	250H52R/L	N225/L	509	274	217	237	225	427	1270	4/3	T2	B0

JIS-EFB

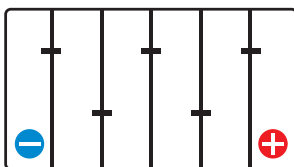
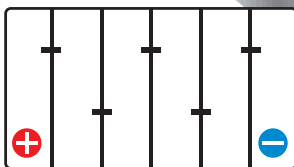
Container	Type No.	Dimension (mm)				Capacity AH @ 20	RC	CCA	Cell Layout	Terminal	Bottom Hold
		L	W	H	TH						
B19	M42/R (55B19L/R)	185	127	200	220	40	61	370	1/0	T1	0/B1
B24	N55/R (70B24L/R)	234	127	200	220	50	79	470	1/0	T1/T2	0/B1
D23	Q85/R (90D23L/R)	230	172	200	220	65	98	600	1/0	T2	0/B1
D26	S95/R (100D26L/R)	257	172	200	220	70	118	710	1/0	T2	0/B1
D31	T110/R (115D31L/R)	302	172	200	220	90	158	950	1/0	T2	0/B1

DIN

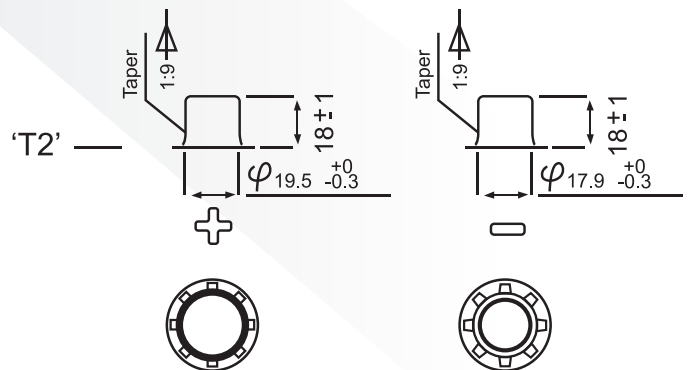
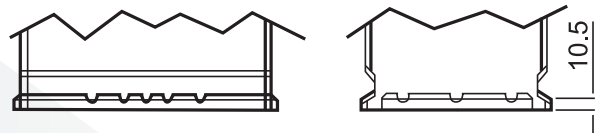
Deutsches Institut für Normung



Cell Layout



Bottom Hold (B13)



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Technical Specification

DIN-LN

Container	Part No.	Dimension				AH @20H	RC	CCA	Cell Layout	Terminal	Bottom Hold
		L	W	H	TH						
LN1	54459	207	174	190	190	44	65	420	0	T2	B13
	54464	207	174	190	190	44	65	420	1	T2	B13
LN2	55559	242	174	190	190	55	84	480	0	T2	B13
	55565	242	174	190	190	55	84	480	1	T2	B13
	56219	242	174	190	190	62	97	550	0	T2	B13
	56218	242	174	190	190	62	97	550	1	T2	B13
LN3	56638	277	174	190	190	66	110	580	0	T2	B13
	56633	277	174	190	190	66	110	580	1	T2	B13
	57417	277	174	190	190	74	120	640	0	T2	B13
LN4	57413	277	174	190	190	74	120	640	1	T2	B13
	58590	314	174	190	190	85	138	700	0	T2	B13
LN5	58591	314	174	190	190	85	138	700	1	T2	B13
	58821	353	174	190	190	88	150	800	1	T2	B13
	58833	353	174	190	190	88	150	800	0	T2	B13
	59218	353	174	190	190	92	155	810	0	T2	B13
DIN-B	60038	353	174	190	190	100	160	880	0	T2	B13
	67018	511	222	203	223	170	318	980	3	T2	B0
	67019	511	222	203	223	170	318	980	4	T2	B0
	68032	511	222	203	223	180	324	1010	3	T2	B0
	68033	511	222	203	223	180	324	1010	4	T2	B0

DIN-LBN

Container	Part No.	Dimension				AH @20H	RC	CCA	Cell Layout	Terminal	Bottom Hold
		L	W	H	TH						
LBN1	54321	207	174	175	175	43	66	480	0	T2	B13
	54322	207	174	175	175	43	66	480	1	T2	B13
LBN2	55457	242	174	175	175	54	74	560	0	T2	B13
	55459	242	174	175	175	54	74	560	1	T2	B13
LBN3	56077	242	174	175	175	60	97	600	0	T2	B13
	56628	277	174	175	175	66	108	620	0	T2	B13
LBN4	57439	277	174	175	175	74	120	700	0	T2	B13
	58514	314	174	175	175	85	130	770	0	T2	B13
LBN5	58820	353	174	175	175	88	145	830	0	T2	B13
	59219	353	174	175	175	92	150	850	0	T2	B13

DIN-EFB

Container	Part No.	Dimension				AH @20H	RC	CCA	Cell Layout	Terminal	Bottom Hold
		L	W	H	TH						
LN1	55010	207	174	190	190	50	79	595	1/0	T2	B13
LN2	56010	242	174	190	190	60	98	710	1/0	T2	B13
LN3	57010	277	174	190	190	70	126	950	1/0	T2	B13
LN4	58010	314	174	190	190	80	147	1050	1/0	T2	B13
LN5	59010	353	174	190	190	90	163	1180	1/0	T2	B13

Key Features

- » Extreme resistance to grid corrosion.
- » Casted positive with higher strength and conductivity.
- » Robotic automated production line.
- » Temperature controlled formation process through water chilled recirculation.
- » HRD and HVT tested.
- » Leak proof safety.

Warranty Commitment

- » 12 Months Warranty.

Countries we export to:

» Indonesia



» Saudi Arabia



» UAE



» Oman



» Kuwait



» Qatar



» Bahrain



» Nepal



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