

BATTERY



STORAGE BATTERY

广州市虎头实业有限公司

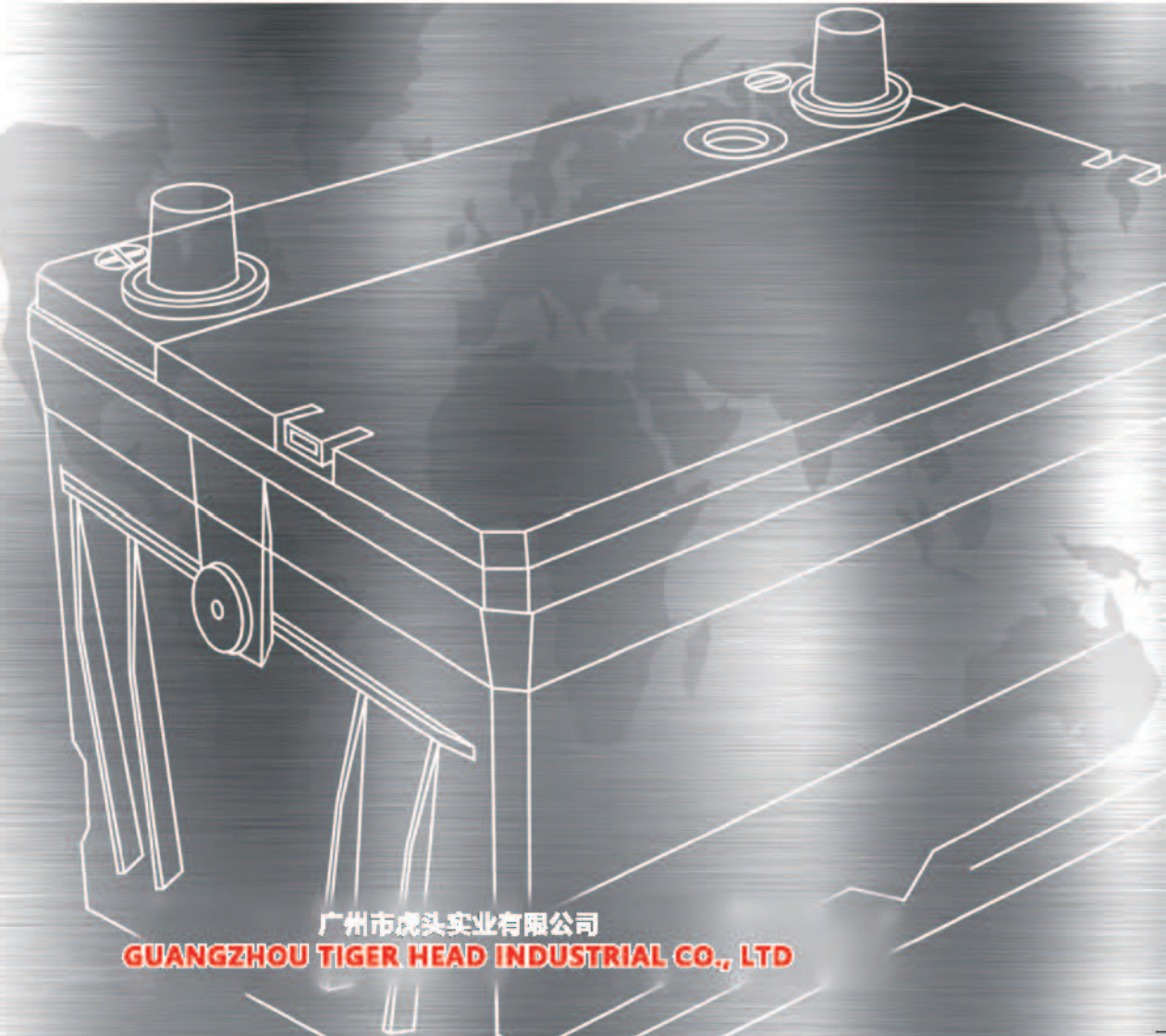
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广州市虎头实业有限公司

GUANGZHOU TIGER HEAD INDUSTRIAL CO., LTD

COMPANY PROFILE



GUANGZHOU TIGER HEAD INDUSTRIAL CO., LTD

Guangzhou Tiger Head Industrial Co., Ltd is the backbone enterprise of Tiger Head Group, with a long history traced back to 1928.

As a large government-owned company, Tiger Head Industrial focuses on diversified development and makes huge investment in R&D, purchasing, producing and marketing. Now we deal with various products including lead acid storage batteries, solar products, lighting products, polymer li-lion batteries, jump starters, battery electric appliances, battery raw material, tomato paste, baby diapers, etc.

We pay much attention to quality. All products are under strict quality control in every process from raw material purchasing to final product testing. With high quality and good service, we win our customers' faith and our products sell well in the world, especially in Africa, Middle East, Asia, South America, Europe, etc.

Tiger Head Industrial and its parent company Tiger Head Battery Group share some famous brands, such as "Tiger Head", "555", "TIHAD", "Lighting", "family", "Wivin", etc.

Tiger Head Industrial devotes to strengthening our brands and continuing to develop excellent products. We optimize allocation of resources globally and build core competitiveness, striving to realize a win-win business with our partners.

Look forward to the future, with your trust and support, Tiger Head Industrial continues to develop excellent products and offering the best service. Let's work together, embrace a flourishing future!

SEALED MAINTENANCE FREE
DIN75MF 12V 75Ah

PRODUCTION CAPACITY



Expander Machinery



Lead strap Workshop



Mixing system Workshop



Automatic Equipment



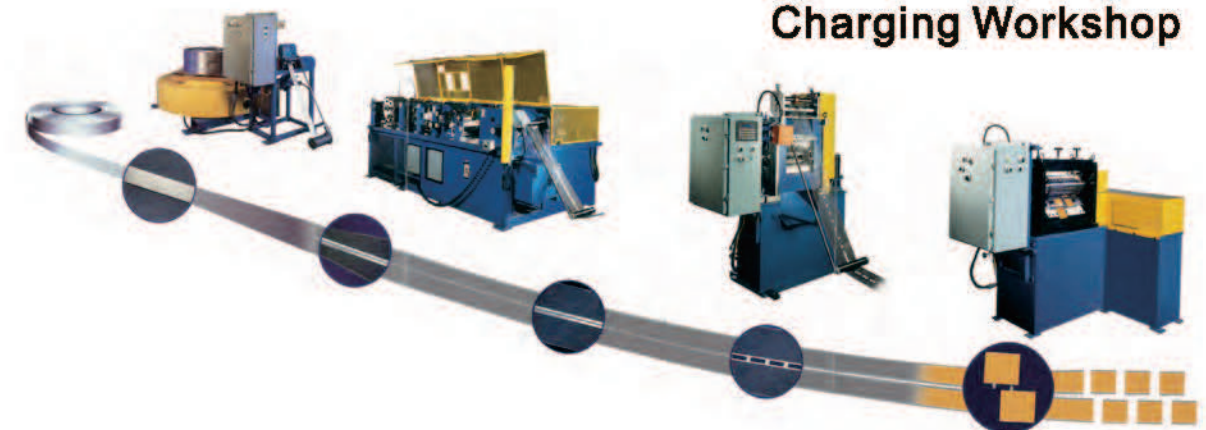
Assembling Workshop

Battery has four production bases, and importing equipment from Italy, Canada and Germany to make sure all the products are Korea well controlled and it has a stable high production capacity.

To strive for high-grade product quality, our company makes strict inspection and selection on materials which are ensuring high-quality and high-standard materials used in assembling production for all products.



Charging Workshop



TigerHead



CERTIFICATION



555



QUALITY CONTROL



TIHAD



Battery

Structure & Characteristics

1 PLATES:Optimized low stibium-arsenic alloy makes long life and storage,less water missing, and less maintenance,Plates group is a stick structure of radioactlvty, which can make battery currents distributed reasonable , reduced the electric resistance,promote output of capacity Maintenance-free battery also adopted to less water missing, and specially PB-Ca formulation, lowself-discharge, long store, do not need add acid and maintenance in the battery lift, Successfully to solved plate gate interface heigt resistance PbSO2 formation.let the battery always in the height starting function.

2 SEPARATOR: The super-thin glass fiber in separator (or PE envelop) reduces the short circulf of plates group,reduce the electric resistance and increase the current capacity. The surface fiber can protect effectively the positive plate to shake and the powder off, so as to extend the usage life.

3 PP CONTAINER: Adopt polypropylene material, with light weight and exceptional strength; With exclusive case design to protect batteries from vibration and impact.

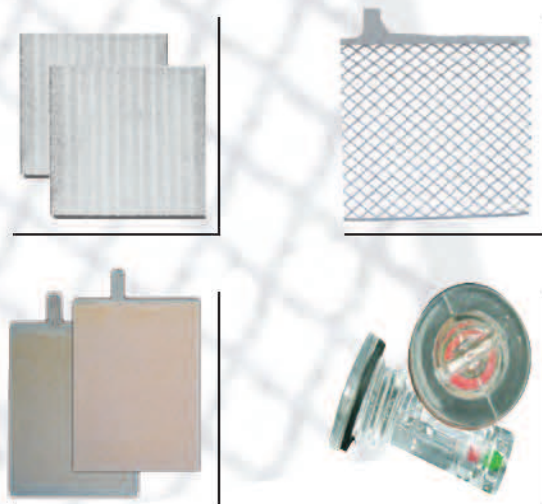
4 COS PLATE WELDING: High cranking Performance and resistance to vibration

5 MAGIC-EYE INDICATOR: Easy to check charging status.

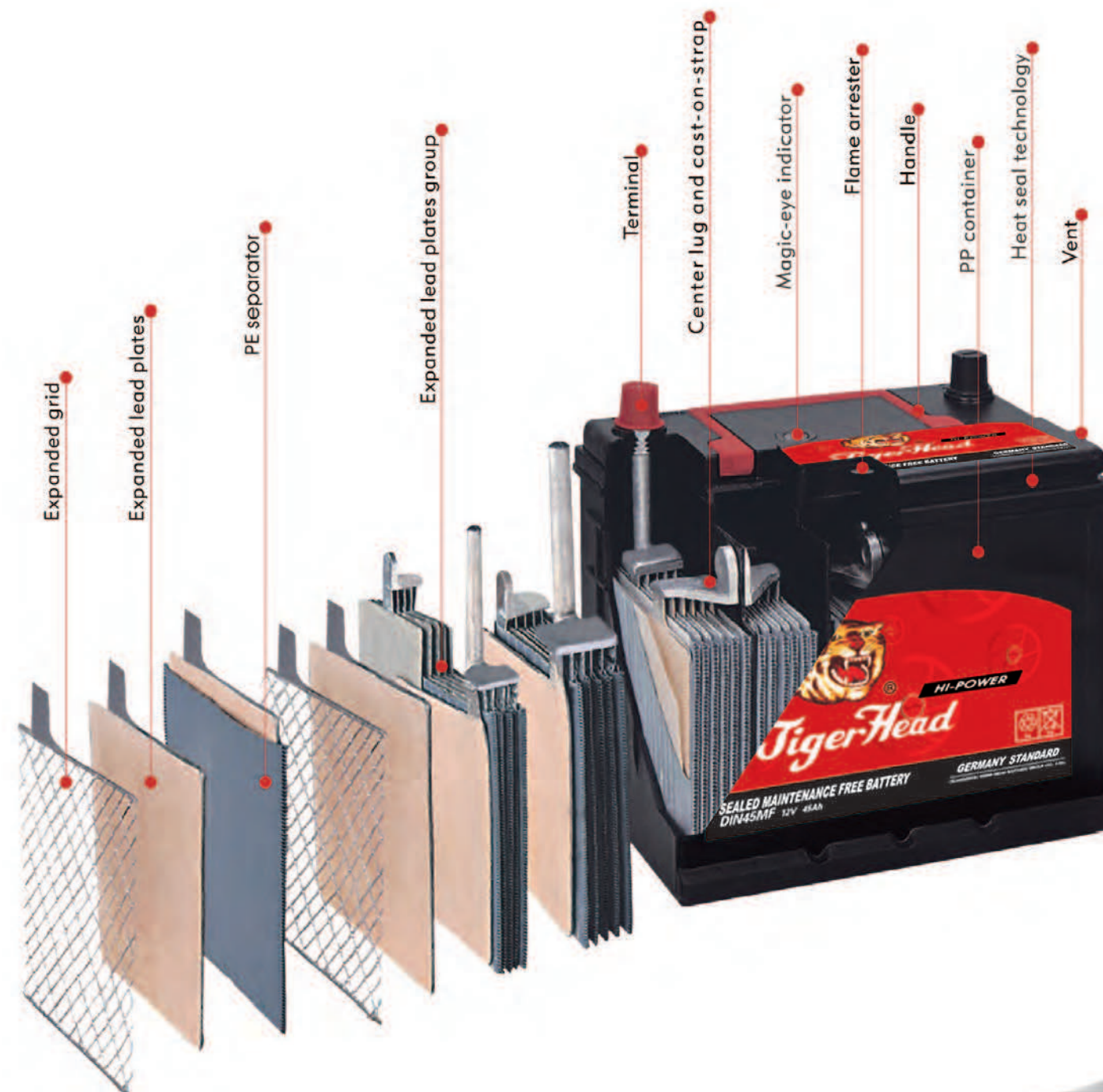
6 DUST-PROOF FLAME ARRESTER: Prevent explosion caused by overflow sulphuric acid and charging spark.

7 COVER:With special structure, the battery has the excellent performance of nonleakage, ventilation and anti-explosion, etc.

8 HEAT SEAL TECHNOLOGY: Heat sealed design to maximize strength and rigidity to prevent electrolyte leakage.



PRODUCT PRESENTAION



DRY CHARGE AUTOMOBILE BATTERIES

The Characteristic, Usage And Maintenance:

1. Batteries should be stored in a clean, dry, draught room with 5-40° C Degrees.
2. Surface of batteries and pole pillar should be kept clean,
3. The electrolyte density poured into at the first time and the first charging should be done under the instrution. During the usage, the surface will reduce, please add some water up to the former level. (If the electrolyte flows out, please add some with same density.)
4. When not use the batteries, take it off from the car, and recharge it so as to prolong its use life.
5. Charge the batteries under the following conditions:
 - 1) The density is less than 1.10.
 - 2) The light is faint.
 - 3) When discharging, voltage of terminal is less than 10.8V.



- Dry-charge lead-acid battery
- Excellent cold temperature resistance, Super Cold Cranking capacity

For Japanese Vehicles(JIS)

Dry Charged Battery

No.	JIS Gr.NO.	New JIS NO.	Old JIS NO.	Capacity (20HR)	Dimension(mm) L*W*H*TH	CCA (SAE)	R C (MINS.)	Lay-out	Terminal	Qty/Pallet	Hold-Down
1	B20	36B20R	NS40Z	36	205*130*200*220	330	52	1	A, B	224	-
2		36B20L	NS40ZL	36	205*130*200*220	330	52	0	A, B	224	-
3	B24	50B24R	N40	40	240*130*200*220	340	65	1	B	175	-
4		50B24L	N40L	40	240*130*200*220	340	65	0	B	175	-
5		50B24RS	N40	40	240*130*200*220	340	65	1	A	175	-
6		50B24LS	N40L	40	240*130*200*220	340	65	0	A	175	-
7		55B24R	NS60	45	240*130*200*220	390	80	1	B	175	-
8		55B24L	NS60L	45	240*130*200*220	390	80	0	B	175	-
9		55B24RS	NS60	45	240*130*200*220	390	80	1	B	175	-
10		55B24LS	NS60L	45	240*130*200*220	390	80	0	B	175	-
11	D26	48D26R	N50	50	268*173*202*224	450	80	1	B	126	-
12		48D26L	N50L	50	268*173*202*224	450	80	0	B	126	-
13		55D26R	N50Z	60	268*173*202*224	550	99	1	B	126	-
14		55D26L	N50ZL	60	268*173*202*224	550	99	0	B	126	-
15		75D26R	NS70	65	268*173*202*224	580	112	1	B	126	-
16		75D26L	NS70L	65	268*173*202*224	580	112	0	B	126	-
17		80D26R	NX110-5	70	268*173*202*224	600	120	1	B	126	-
18	D23	80D26L	NX110-5	70	268*173*202*224	600	120	0	B	126	-
19		55D23R		60	229*173*201*220	550	99	1	B	126	-
20		55D23L		60	229*173*201*220	550	99	0	B	126	-
21		75D23R		65	229*173*201*220	580	99	1	B	126	-
22		75D23L		65	229*173*201*220	580	99	0	B	126	-
23		85D23R		68	229*173*201*220	590	99	1	B	126	-
24		85D23L		68	229*173*201*220	590	99	0	B	126	-
25	D31	65D31R	N70	70	310*175*204*225	600	126	1	B	119	-
26		65D31L	N70L	70	310*175*205*225	600	126	0	B	119	-
27		75D31R	N70Z	75	310*175*204*225	600	126	1	B	119	-
28		75D31L	N70ZL	75	310*175*205*225	600	126	0	B	119	-
29		95D31R	NX120-7	80	310*175*204*225	650	153	1	B	119	-
30		95D31L	NX120-7	80	310*175*205*225	650	153	0	B	119	-
31		105D31R		90	310*175*204*225	700	160	1	B	119	-
32	E41	105D31L		90	310*175*205*225	700	160	0	B	119	-
33		95E41R	N100	100	404*171*199*219	800	170	1	B	84	-
34		95E41L	N100L	100	404*171*199*219	800	170	0	B	84	-
35		115E41R	NS120	110	404*171*199*219	880	180	1	B	84	-
36	BCI	115E41L	NS120L	110	404*171*199*219	880	180	0	B	84	-
37		BCI31-1000		100	332*171*218*252	820	170	1	D	84	-
38		6TN		100	277*265*204*256	820	150	3,5	B	72	-
39	F51	135F51	N120	120	505*180*208*231	870	204	3	B	63	-
40	G51	160G51	N150	150	506*221*210*233	1000	255	3	B	56	-
41	H52	210H52	N200	200	515*265*215*238	1400	340	3	B	42	-
42		74-60		53	260*178*202	450	424	0	E	144	-
43		78-72		63	270*178*182	535	504	0	E	144	-
44		78-60		60	270*178*182	510	480	0	E	144	-
45		75-72		55	240*175*190	460	440	0	B	144	-
46		68-60s		45	240*175*190	380	360	0	B	144	-
47		65-72S		65	300*190*170*190	550	520	0	B	105	-

For European Vehicles (DIN)

Dry Charged Battery

No.	DIN Gr.NO.	New ETN NO.	capacity (20HR)	Dimension (mm) L*W*TH	CCA (EN)	R C (mins.)	Lay-out	Terminal	Qty/Pallet	Hold-Down
1	LB1	53646	36	210*175*175	330	50	0	B	168	B3
2		53647	36	210*175*175	330	50	1	B	168	B3
3		54321	43	210*175*175	360	55	0	B	168	B3
4		54322	43	210*175*175	360	55	1	B	168	B3
5	L1	54459	44	210*175*190	360	66	0	B	168	B3
6		54464	44	210*175*190	360	66	1	B	168	B3
7	LB2	54519	45	240*175*175	390	66	0	B	168	B1/B3
8		54520	45	240*175*175	390	66	1	B	168	B1/B3
9		55046	50	240*175*175	420	75	1	B	168	B1/B3
10		55457	54	240*175*175	450	90	0	B	168	B1/B3
11		55459	54	240*175*175	450	90	1	B	168	B1/B3
12		56077	60	240*175*175	480	98	0	B	168	B1/B3
13	L2	55559	55	240*175*190	480	93	0	B	168	B1/B3
14		55548	55	240*175*190	480	93	1	B	168	B1/B3
15		55565	55	240*175*190	480	93	1	B	168	B1/B3
16		55531	55	240*175*190	480	93	0	B	168	B1/B3
17		56219	62	240*175*190	520	105	0	B	168	B1/B3
18		56220	62	240*175*190	520	105	1	B	168	B1/B3
19	LB3	56221	62	240*175*190	520	105	0	B	168	B1/B3
20		55415	54	274*175*190	480	93	0	B	144	B3
21		56318	63	274*175*190	540	115	0	B	144	B3
22		56420	64	274*175*190	540	115	0	B	144	B3
23		56818	68	274*175*190	570	123	0	B	144	B3
24		56821	68	274*175*190	570	123	0	B	144	B3
25	L3	56828	68	274*175*190	570	123	1	B	144	B3
26		57113	71	274*175*190	600	123	0	B	144	B3
27		57114	71	274*175*190	600	123	1	B	144	B3
28		56638	66	274*175*190	540	112	0	B	144	B3
29		56633	66	274*175*190	540	112	1	B	144	B3
30		57219	72	274*175*190	600	123	1	B	144	B3
31	LB4	57220	72	274*175*190	600	123	0	B	144	B3
32		57412	74	274*175*190	640	135	0	B	144	B3
33		57413	74	274*175*190	640	135	1	B	144	B3
34	L4	57539	75	311*175*175	660	135	0	B	120	B1/B3
35	L5	58043	80	311*175*190	660	135	0	B	120	B1/B3
36	LB5	58515	85	354*175*175	680	135	0	B	96	B1/B3
37		58827	88	350*175*190	680	150	0	B	96	B1/B3
38		58821	88	350*175*190	680	150	1	B	96	B1/B3
39		59218	92	350*175*190	720	155	0	B	96	B3
40		59219	92	350*175*190	720	155	1	B	96	B3
41		60038	100	350*175*190	850	170	0	B	96	B3
42	JIS B20	60044	100	350*175*190	850	170	1	B	96	B3
43		53504	35	195*128*200*220	300	52	0	B	224	-
44		53520	35	195*128*200*220	300	52	0	B	224	-
45		53522	35	195*128*200*220	300	52	1	B	224	-
46		53521	35	195*128*200*220	300	52	0	B	224	-
47		54026	40	195*128*200*220	340	65	0	B	224	-
48		54027	40	195*128*200*220	340	65	1	B	224	-

No.	DIN Gr.NO.	New ETN NO.	capacity (20HR)	Dimension (mm) L*W*TH	CCA (EN)	R C (mins.)	Lay-out	Terminal	Qty/Pallet	Hold-Down
49	JIS B24 (NS60)	54523	45	237*128*200*220	360	80	0	B	175	-
50		54524	45	237*128*200*220	360	80	1	B	175	-
51		54584	45	237*128*200*220	360	80	0	B	175	-
52	JIS D23 (55D23)	54551	45	237*128*200*220	360	80	1	B	175	-
53		56068	60	230*173*202*224	480	95	0	B	126	-
54		56069	60	230*173*202*224	480	95	1	B	126	-
55	BCI 24F	56048	60	260*170*200*220	480	95	0	B	126	-
56		56049	60	260*170*200*220	480	95	1	B	126	-
57		57029	72	260*170*200*220	540	105	0	B	126	-
58	JIS D31	57024	72	260*170*200*220	540	105	1	B	126	-
59		57512	75	310*170*200*220	600	95	0	B	119	-
60		57513	75	310*170*200*220	600	115	1	B	119	-
61	Q58	58513	85	310*170*200*220	680	115	0	B	119	-
62		58514	85	310*170*200*220	680	115	1	B	119	-
63		59518	95	310*170*200*220	720	120	1	B	119	-
64	JIS E41	59519	95	310*170*200*220	720	120	0	B	119	-
65		55716	57	240*175*153*175	480	95	0	B	135	-
66		56011	60	240*175*153*175	500	105	0	B	135	-
67	JIS E41	60026	100	405*170*200*220	760	170	0	B	84	-
68		60035	100	405*170*200*220	760	170	1	B	84	-
69		61017	110	405*170*200*220	760	170	0	B	84	-

Truck Battery Specification

Dry Charged Battery

No.	DIN Gr.NO.	New ETN NO.	capacity (20HR)	Dimension (mm)	CCA (SAE)	R C (MINS.)	Lay-out	Terminal	Qty/Pallet	Hold-Down
1	D4	62034	120	505*184*194*215	850	204	3	B	63	-
2		62038	120	505*184*194*215	850	204	4	B	63	-
3		63530	135	505*184*194*215	880	215	3	B	63	-
4		63532	135	505*184*194*215	880	215	4	B	63	-
5		64020	140	505*184*194*215	900	228	3	B	63	-
6		64028	140	505*184*194*215	900	228	4	B	63	-
7	D5	64317	143	505*220*192*214	950	255	3	B	63	-
8		64318	143	505*220*192*214	950	255	4	B	63	-
9		65011	150	505*220*192*214	980	260	3	B	63	-
10		65012	150	505*220*192*214	980	260	4	B	63	-
11		65513	155	505*220*192*214	980	255	3	B	63	-
12		65514	155	505*220*192*214	980	255	3	B	63	-
13	D6	67043	170	505*220*192*214	1050	270	3	B	63	-
14		67044	170	505*220*192*214	1050	270	4	B	63	-
15		68022	180	505*220*192*214	1050	270	3	B	63	-
16		68029	180	505*220*192*214	1050	270	4	B	63	-
17		68039	180	515*265*215*235	1100	305	3	B	35	-
18		68040	180	515*265*215*235	1100	305	3	B	35	-
19	D6	70027	200	515*265*215*235	1200	320	3	B	35	-
20		70029	200	515*265*215*235	1200	320	4	B	35	-
21		71014	210	515*265*215*235	1470	340	3	B	35	-
22		71015	210	515*265*215*235	1470	340	3	B	35	-
23		72511	225	515*265*215*235	1575	355	3	B	35	-
24		73010	230	515*265*215*235	1610	355	3	B	35	-
25	D6	73011	230	515*265*215*235	1610	3550	3	B	35	-

SEALED MAINTENANCE-FREE STARTING LEAD ACID BATTERIES

The Characteristic, Usage And Maintenance:

1. For a new battery, it's no need to charge, to add liquid, you can use it after fitting on the car. During the usage, liquid is never in need.
2. When using, keep the battery clean, make sure the connection contacts well. Coated some Vaseline on connection between the pole and line and fasten the batteries well.
3. Strong polypropylene container, advance lead calcium alloy and special diachylum method, antiacid mist filter plate, anti-shake, prevent coldness, low discharge less water losing, well cold starting capability.
4. If need to offload the battery to charge, you can charge it with constant current of less than 0.1 C20A, and keep the voltage in 14.2-14.6v.
5. Keep batteries in a dry place, avoiding the sunshine. Batteries with half year storage, before use, you should charge them. Charging method: 0.1 C20A. Eg: 60AH battery: charging with 6A for 6 hours.



- Completely sealed Maintenance-free lead-acid battery
- Environment Secured, Long-lifespan, Tiger Head is your reliable partner !

JIS Standard Battery (SMF)

No.	JIS Gr.NO.	New JIS NO.	Old JIS NO.	Capacity (20HR)	Dimension(mm) L*W*H*TH	CCA (SAE)	R C (MINS.)	Lay-out	Terminal	Qty/Pallet	Hold-Down
1	B20	MF36B20R	NS40ZMF	36	205*130*200*220	330	52	1	A,B	224	-
2		MF36B20L	NS40ZLMF	36	205*130*200*220	330	52	0	A,B	224	-
3	B24	MF50B24R	N40MF	40	240*130*200*220	340	65	1	B	175	-
4		MF50B24L	N40LMF	40	240*130*200*220	340	65	0	B	175	-
5		MF50B24RS	N40MF	40	240*130*200*220	340	65	1	A	175	-
6		MF50B24LS	N40LMF	40	240*130*200*220	340	65	0	A	175	-
7		MF55B24R	NS60MF	45	240*130*200*220	390	80	1	B	175	-
8		MF55B24L	NS60LMF	45	240*130*200*220	390	80	0	B	175	-
9	D26	MF55B24RS	NS60MF	45	240*130*200*220	390	80	1	B	175	-
10		MF55B24LS	NS60LMF	45	240*130*200*220	390	80	0	B	175	-
11		MF48D26R	N50MF	50	268*173*202*224	450	80	1	B	126	-
12		MF48D26L	N50LMF	50	268*173*202*224	450	80	0	B	126	-
13		MF55D26R	N50ZMF	60	268*173*202*224	550	99	1	B	126	-
14		MF55D26L	N50ZLMF	60	268*173*202*224	550	99	0	B	126	-
15	D23	MF75D26R	NS70MF	65	268*173*202*224	580	112	1	B	126	-
16		MF75D26L	NS70LMF	65	268*173*202*224	580	112	0	B	126	-
17		MF80D26R	NX110-5MF	70	268*173*202*224	600	120	1	B	126	-
18		MF80D26L	NX110-5MF	70	268*173*202*224	600	120	0	B	126	-
19		MF55D23R		60	229*173*201*220	550	99	1	B	126	-
20		MF55D23L		60	229*173*201*220	550	99	0	B	126	-
21	D31	MF75D23R		65	229*173*201*220	580	99	1	B	126	-
22		MF75D23L		65	229*173*201*220	580	99	0	B	126	-
23		MF85D23R		68	229*173*201*220	590	99	1	B	126	-
24		MF85D23L		68	229*173*201*220	590	99	0	B	126	-
25	E41	MF65D31R	N70MF	70	310*175*204*225	600	126	1	B	119	-
26		MF65D31L	N70LMF	70	310*175*204*225	600	126	0	B	119	-
27		MF75D31R	N70ZMF	75	310*175*204*225	600	126	1	B	119	-
28		MF75D31L	N70ZLMF	75	310*175*204*225	600	126	0	B	119	-
29		MF95D31R	NX120-7MF	80	310*175*204*225	650	153	1	B	119	-
30		MF95D31L	NX120-7MF	80	310*175*204*225	650	153	0	B	119	-
31	BCI	MF105D31R		90	310*175*204*225	700	160	1	B	119	-
32		MF105D31L		90	310*175*204*225	700	160	0	B	119	-
33	F51	MF95E41R	N100MF	100	404*171*199*219	800	170	1	B	84	-
34		MF95E41L	N100LMF	100	404*171*199*219	800	170	0	B	84	-
35		MF115E41R	NS120MF	110	404*171*199*219	880	180	1	B	84	-
36		MF115E41L	NS120LMF	110	404*171*199*219	880	180	0	B	84	-
37	G51	MFBCI31-1000		100	332*171*218*252	820	170	1	D	84	-
38		MF6TN		100	277*265*204*256	820	150	3,5	B	72	-
39	H52	MF135F51	N120MF	120	505*180*208*231	870	204	3	B	63	-
40		MF160G51	N150MF	150	506*221*210*233	1000	255	3	B	56	-
41		MF210H52	N200MF	200	515*265*215*238	1400	340	3	B	42	-
42		74-60		53	260*178*202	450	424	0	E	144	-
43		78-72		63	270*178*182	535	504	0	E	144	-
44		78-60		60	270*178*182	510	480	0	E	144	-
45		75-72		55	240*175*190	460	440	0	B	144	-
46		68-60s		45	240*175*190	380	360	0	B	144	-
47		65-72S		65	300*190*170*190	550	520	0	B	105	-

EN Standard Battery (SMF)

No.	DIN Gr.NO.	New ETN NO.	capacity (20HR)	Dimension (mm) L*W*TH	CCA (EN)	R C (mins.)	Lay-out	Terminal	Qty/Pallet	Hold-Down
1	LB1	MF53646	36	210*175*175	330	50	0	B	168	B3
2		MF53647	36	210*175*175	330	50	1	B	168	B3
3		MF54321	43	210*175*175	360	55	0	B	168	B3
4		MF54322	43	210*175*175	360	55	1	B	168	B3
5	L1	MF54459	44	210*175*190	360	66	0	B	168	B3
6		MF54464	44	210*175*190	360	66	1	B	168	B3
7	LB2	MF54519	45	240*175*175	390	66	0	B	168	B1/B3
8		MF54520	45	240*175*175	390	66	1	B	168	B1/B3
9		MF55046	50	240*175*175	420	75	1	B	168	B1/B3
10		MF55457	54	240*175*175	450	90	0	B	168	B1/B3
11		MF55459	54	240*175*175	450	90	1	B	168	B1/B3
12		MF56077	60	240*175*175	480	98	0	B	168	B1/B3
13	L2	MF55559	55	240*175*190	480	93	0	B	168	B1/B3
14		MF55548	55	240*175*190	480	93	1	B	168	B1/B3
15		MF55565	55	240*175*190	480	93	1	B	168	B1/B3
16		MF55531	55	240*175*190	480	93	0	B	168	B1/B3
17		MF56219	62	240*175*190	520	105	0	B	168	B1/B3
18		MF56220	62	240*175*190	520	105	1	B	168	B1/B3
19		MF56221	62	240*175*190	520	105	0	B	168	B1/B3
20	LB3	MF55415	54	274*175*190	480	93	0	B	144	B3
21		MF56318	63	274*175*190	540	115	0	B	144	B3
22		MF56420	64	274*175*190	540	115	0	B	144	B3
23		MF56818	68	274*175*190	570	123	0	B	144	B3
24		MF56821	68	274*175*190	570	123	0	B	144	B3
25		MF56828	68	274*175*190	570	123	1	B	144	B3
26		MF57113	71	274*175*190	600	123	0	B	144	B3
27	L3	MF57114	71	274*175*190	600	123	1	B	144	B3
28		MF56638	66	274*175*190	540	112	0	B	144	B3
29		MF56633	66	274*175*190	540	112	1	B	144	B3
30		MF57219	72	274*175*190	600	123	1	B	144	B3
31		MF57220	72	274*175*190	600	123	0	B	144	B3
32		MF57412	74	274*175*190	640	135	0	B	144	B3
33		MF57413	74	274*175*190	640	135	1	B	144	B3
34	LB4	MF57539	75	311*175*175	660	135	0	B	120	B1/B3
35	L4	MF58043	80	311*175*190	660	135	0	B	120	B1/B3
36	LB5	MF58515	85	354*175*175	680	135	0	B	96	B1/B3
37	L5	MF58827	88	350*175*190	680	150	0	B	96	B1/B3
38		MF58821	88	350*175*190	680	150	1	B	96	B1/B3
39		MF59218	92	350*175*190	720	155	0	B	96	B3
40		MF59219	92	350*175*190	720	155	1	B	96	B3
41		MF60038	100	350*175*190	850	170	0	B	96	B3
42		MF60044	100	350*175*190	850	170	1	B	96	B3
43	JIS B20	MF53504	35	195*128*200*220	300	52	0	B	224	-
44		MF53520	35	195*128*200*220	300	52	0	B	224	-
45		MF53522	35	195*128*200*220	300	52	1	B	224	-
46		MF53521	35	195*128*200*220	300	52	0	B	224	-
47		MF54026	40	195*128*200*220	340	65	0	B	224	-
48		MF54027	40	195*128*200*220	340	65	1	B	224	-

No.	DIN Gr.NO.	New ETN NO.	capacity (20HR)	Dimension (mm) L*W*TH	CCA (EN)	R C (mins.)	Lay-out	Terminal	Qty/Pallet	Hold-Down
49	JIS B24 (NS60)	MF54523	45	237*128*200*220	360	80	0	B	175	-
50		MF54524	45	237*128*200*220	360	80	1	B	175	-
51		MF54584	45	237*128*200*220	360	80	0	B	175	-
52		MF54551	45	237*128*200*220	360	80	1	B	175	-
53	JIS D23 (55D23)	MF56068	60	230*173*202*224	480	95	0	B	126	-
54		MF56069	60	230*173*202*224	480	95	1	B	126	-
55	BCI 24F	MF56048	60	260*170*200*220	480	95	0	B	126	-
56		MF56049	60	260*170*200*220	480	95	1	B	126	-
57		MF57029	72	260*170*200*220	540	105	0	B	126	-
58		MF57024	72	260*170*200*220	540	105	1	B	126	-
59	JIS D31	MF57512	75	310*170*200*220	600	95	0	B	119	-
60		MF57513	75	310*170*200*220	600	115	1	B	119	-
61		MF58513	85	310*170*200*220	680	115	0	B	119	-
62		MF58514	85	310*170*200*220	680	115	1	B	119	-
63	Q58	MF59518	95	310*170*200*220	720	120	1	B	119	-
64		MF59519	95	310*170*200*220	720	120	0	B	119	-
65		MF55716	57	240*175*153*175	480	95	0	B	135	-
66		MF56011	60	240*175*153*175	500	105	0	B	135	-
67	JIS E41	MF60026	100	405*170*200*220	760	170	0	B	84	-
68		MF60035	100	405*170*200*220	760	170	1	B	84	-
69		MF61017	110	405*170*200*220	760	170	0	B	84	-

Truck Battery Specification

No.	DIN Gr.NO.	New ETN NO.	capacity (20HR)	Dimension (mm)	CCA (SAE)	R C (MINS.)	Lay-out	Terminal	Qty/Pallet	Hold-Down
1	D4	62034MF	120	505*184*194*215	850	204	3	B	63	-
2		62038MF	120	505*184*194*215	850	204	4	B	63	-
3		63530MF	135	505*184*194*215	880	215	3	B	63	-
4		63532MF	135	505*184*194*215	880	215	4	B	63	-
5		64020MF	140	505*184*194*215	900	228	3	B	63	-
6		64028MF	140	505*184*194*215	900	228	4	B	63	-
7	D5	64317MF	143	505*220*192*214	950	255	3	B	63	-
8		64318MF	143	505*220*192*214	950	255	4	B	63	-
9		65011MF	150	505*220*192*214	980	260	3	B	63	-
10		65012MF	150	505*220*192*214	980	260	4	B	63	-
11		65513MF	155	505*220*192*214	980	255	3	B	63	-
12		65514MF	155	505*220*192*214	980	255	3	B	63	-
13		67043MF	170	505*220*192*214	1050	270	3	B	63	-
14		67044MF	170	505*220*192*214	1050	270	4	B	63	-
15		68022MF	180	505*220*192*214	1050	270	3	B	63	-
16		68029MF	180	505*220*192*214	1050	270	4	B	63	-
17	D6	68039MF	180	515*265*215*235	1100	305	3	B	35	-
18		68040MF	180	515*265*215*235	1100	305	3	B	35	-
19		70027MF	200	515*265*215*235	1200	320	3	B	35	-
20		70029MF	200	515*265*215*235	1200	320	4	B	35	-
21		71014MF	210	515*265*215*235	1470	340	3	B	35	-
22		71015MF	210	515*265*215*235	1470	340	3	B	35	-
23		72511MF	225	515*265*215*235	1575	355	3	B	35	-
24		73010MF	230	515*265*215*235	1610	355	3	B	35	-
25		73011MF	230	515*265*215*235	1610	3550	3	B	35	-

**AS Standard Battery (SMF)**

NO.	TYPE NO.	Capacity 20HR(AH)	CCA (SAE)	RC (mins.)	Dimension(mm) L*W*H*TH	Weight (kgs)	Lay-out	Terminal	Qty/p allet	Hold- Down
1	NS40ZMF	36	330	52	198*128*200*220	10.3	1	A	224	-
2	NS40ZLMF	36	330	52	198*128*200*220	10.3	0	A	224	-
3	NS40ZSMF	36	330	52	198*128*200*220	10.3	1	B	224	-
4	NS40ZLSMF	36	330	52	198*128*200*220	10.3	0	B	224	-
5	N41MF	41	330	65	236*133*182*204	12	1	B	175	-
6	N43MF	43	330	65	236*133*182*204	12	1	B	175	-
7	NS80MF	45	390	80	236*128*200*220	12.6	1	A	175	-
8	NS80LMF	45	390	80	236*128*200*220	12.6	0	A	175	-
9	NS80(S)MF	45	390	80	236*128*200*220	12.6	1	B	175	-
10	NS80L(S)MF	45	390	80	236*128*200*220	12.6	0	B	175	-
11	NS50PMF	55	600	89	228*172*183*203	15.5	1	B	147	B1
12	NS50PLMF	55	600	89	228*172*183*203	15.5	0	B	147	B1
13	NS0EFMF	55	600	89	228*172*183*203	15.5	1	B	147	B1
14	NS1EBMF	55	600	89	228*172*183*203	15.5	0	B	147	B1
15	55D23RMF	60	570	94	228*172*200*220	16.5	1	B	126	B1
16	55D23LMF	60	570	94	228*172*200*220	16.5	0	B	126	B1
17	NS0ZMF	60	550	99	258*172*198*218	17.5	1	B	126	B1
18	NS0ZLMF	60	550	99	258*172*198*218	17.5	0	B	126	B1
19	NS70MF	65	580	112	258*172*198*218	18.2	1	B	126	B1
20	NS70LMF	65	580	112	258*172*198*218	18.2	0	B	126	B1
21	N70ZMF	75	800	126	302*172*200*220	21.2	1	B	119	B1
22	N70ZLMF	75	800	126	302*172*200*220	21.2	0	B	119	B1
23	N100MF	100	800	170	406*173*210*230	26	1	B	84	-
24	N100LMF	100	800	170	406*173*210*230	26	0	B	84	-
25	NS120MF	110	880	180	406*173*210*230	27.5	1	B	84	-
26	NS120LMF	110	880	180	406*173*210*230	27.5	0	B	84	-
27	DIN44MF	44	360	65	208*175*175*175	10.3	0	B	168	-
28	DIN55MF	55	480	93	240*175*175*175	14.5	0	B	168	B3
29	DIN66MF	66	540	112	278*175*175*175	16.8	0	B	144	B3
30	DIN77MF	77	660	135	311*175*175*175	19.5	0	B	120	B3
31	DIN88MF	88	680	150	352*175*175*175	22.1	0	B	96	B3
32	31-800	96	800	170	330*175*218*242	26.5	1	B	84	-
33	31-800	96	800	170	330*172*218*242	26.5	1	D	84	-
34	78-875	63	875	112	280*178*182	16.6	1	D	144	B1
Heavy duty Battery										
35	N120MF	120	870	204	505*180*208*231	32.7	3	B	63	-
36	N150MF	150	1000	255	506*221*210*233	39.68	3	B	56	-
37	N200MF	200	1400	340	515*265*215*238	49.62	3	B	42	-
38	62034MF	120	850	204	506*184*194*216	32.7	3	B	63	-
39	65012MF	150	980	260	505*220*192*214	40.5	3	B	56	-
40	70027MF	170	1200	320	515*265*215*235	49.7	3	B	42	-

SA Standard Battery (SMF)

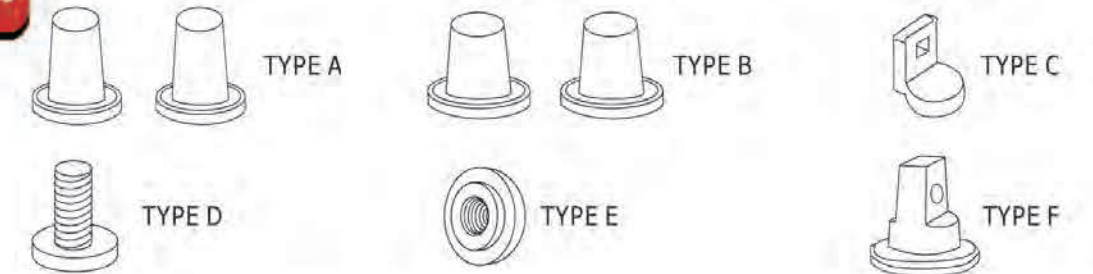
S.N	Model No.	Capacity 20HR(AH)	RC (minutes)	CCA (IEC)	CCA (DIN)	CCA (SAE)	Dimension(mm) L*W*H*TH	Weight (Kgs)	Lay-out	Terminal	Qty/P allet	Hold- Down
1	610	45	89	220	190	325	261*177*203	15.7	0	B1	126	B1
2	611	45	89	220	190	325	261*177*203	15.7	1	B1	126	B1
3	612CV	45	69	220	190	325	240*174*190	12.6	0	B3	168	B3
4	617	36	50	190	165	285	208*174*175	10.1	0	B	168	B3
5	618	36	50	190	165	285	208*174*175	10.1	1	B	168	B3
6	619	36	50	190	165	285	208*174*175	10.1	1	B	168	B3
7	621	50	77	255	220	370	261*177*203	16	1	B	126	B1
8	622	50	77	255	220	370	261*177*203	16	0	B	126	B1
9	628	45	62	240	205	345	240*174*177	14	1	B	168	B3
10	629	45	62	240	205	345	240*174*177	14	1	B	168	B3
11	630	36	50	200	170	295	238*134*202	11.2	0	B	175	B1
12	631	36	50	200	170	295	238*134*202	11.2	1	B	175	B1
13	634	45	62	250	215	365	238*134*202	14	0	B	175	B1
14	635	45	62	240	205	345	240*174*177	14	0	B	168	B3
15	636CV	45	62	250	215	380	241*134*203	12.8	1	B	168	B1
16	637CV	60	90	280	240	400	235*173*203	18.5	0	B	147	B1
17	638	60	90	280	240	400	261*177*203	17.52	0	B	126	B1
18	639	60	90	280	240	400	261*177*203	17.52	1	B	126	B1
19	643	60	90	280	240	400	240*175*190	15.2	0	B	168	B3
20	645	80	90	280	240	400	240*175*190	15.2	1	B	168	B3
21	646	80	90	280	240	400	240*175*190	15.2	1	B	168	B3
22	647CV	54	77	280	240	400	264*175*175	15.5	1	B	144	B3
23	649	65	97	320	280	450	230*170*227	16.5	1	B	147	B1
24	650	65	97	320	280	450	305*173*220	17.5	0	B	119	B1
25	651CV	80	91	325	280	460	275*175*175	15.5	1	B	144	B3
26	652CV	65	104	325	280	460	278*175*190	16.8	1	B	144	B3
27	653	65	104	325	280	460	278*175*190	16.8	1	B	144	B3
28	654CV	80	127	425	365	585	350*175*175	21.3	1	B	84	B3
29	657CV	85	104	325	280	480	278*175*190	16.8	0	B	144	B3
30	658CV	90	149	440	375	600	355*175*190	22.1	1	B	84	B3
31	659CV	90	127	425	365	585	315*175*175	21.5	0	B	84	B3
32	665	60	90	280	240	400	242*175*190	15.2	1	B	168	B3
33	667	65	104	325	280	460	278*175*190	16.8	1	B	144	B3
34	668	90	149	440	375	600	315*175*190	22	1	B	112	B3
35	680/3	120	216	545	465	735	510*180*219	32.7	4	B	48	-
36	681/2	120	216	545	465	735	510*180*219	32.7	3	B	48	-
37	685	120	225	605	515	810	504*180*214	32.7	4	B	48	-
38	687	200	340	890	750	1160	515*264*235	49.62	4	B	36	-
39	688	200	340	890	750	1150	515*264*235	49.62	3	B	36	-
40	689	140	265	690	590	925	512*224*219	35.2	4	B	48	-
41	690	140	265	690	590	925	512*224*219	35.2	3	B	48	-
42	692	165	331	755	645	1005	512*224*219	40.2	4	B	48	-

BCI Standard Battery (SMF)

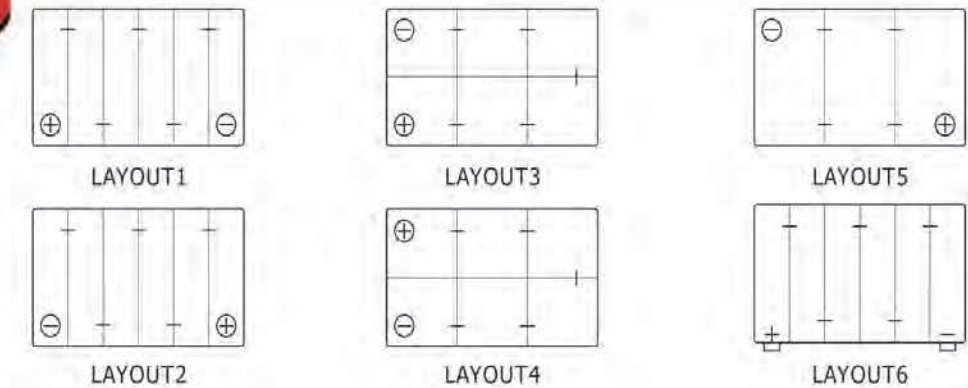
No.	Gr.NO.	TYPE NO.	Capacity 20HR(AH)	CCA (SAE)	R C (mins.)	Dimension(mm) L*W*H*TH	Weight (Kgs)	Lay-out	Terminal	Qty/P allet	Hold- Down
1	24	24-390	50	390	78	257*172*200*220	16	1	B	126	B1
2		24-460	60	460	94	257*172*200*220	17.5	1	B	126	B1
3		24-540	72	540	117	257*172*200*220	18.3	1	B	126	B1
4	24F	24F-390	50	390	78	268*172*200*220	16	0	B	126	B1
5		24F-460	60	460	94	268*172*200*220	17.5	0	B	126	B1
6		24F-540	72	540	117	268*172*200*220	18.3	0	B	126	B1
7	27	27-540	72	540	117	310*175*204*225	20.5	1	B	119	B1
8		27-580	85	580	143	310*175*204*225	21.3	1	B	119	B1
9		27-820	95	820	166	310*175*204*225	22	1	B	119	B1
10	27F	27F-540	72	540	117	310*175*204*225	20.5	0	B	119	B1
11		27F-580	85	580	143	310*175*204*225	21.3	0	B	119	B1
12		27F-820	95	820	166	310*175*204*225	22	0	B	119	B1
13	G31P	G31P-1000	120	1000	230	404*171*199*219	28.2	1	B	84	-
14	31	31-630	75	630	130	330*172*218*242	23.5	1	B	84	-
15		31-700	84	700	140	330*172*218*242	25	1	B	84	-
16		31-750	90	750	160	330*172*218*242	25.8	1	B	84	-
17		31-800	95	800	170	330*172*218*242	26.5	1	B	84	-
18		31-850	100	850	180	330*172*218*242	26.5	1	B	84	-
19		31-1000	95	1000	190	330*172*218*242	26.5	1	B	84	-
20	31S	31S-630	75	630	130	330*172*218*242	23.5	1	D	84	-
21		31S-700	84	700	140	330*172*218*242	25	1	D	84	-
22		31S-750	90	750	160	330*172*218*242	25.8	1	D	84	-
23		31S-800	95	800	170	330*172*218*242	26.5	1	D	84	-
24		31S-850	100	850	180	330*172*218*242	26.5	1	D	84	-
25		31S-1000	95	1000	190	330*172*218*242	26.5	1	D	84	-
26	34	34-825	83	825	106	268*172*182*203	15.5	1	B	147	B1
27	34R	34R-825	83	825	106	268*172*182*203	15.5	1	B	147	B1
28	25	25-520	72	520	117	230*172*180*200	17.3	1	B	126	B1
29	35	35-520	72	520	117	230*172*180*200	17.3	0	B	126	B1
30	22F	22F-550	55	550	99	230*172*180*200	16.5	0	F	126	B1
31	47	47-480	55	480	93	245*175*190	14.5	0	B	168	B1
32		47-520	60	520	105	245*175*190	15.2	0	B	168	B1
33	48	48-480	64	480	112	275*178*190	16.5	0	B	144	B1
34		48-570	83	570	123	275*178*190	18.8	0	B	144	B1
35		48-800	71	800	136	275*178*190	18	0	B	144	B1
36	49	49-580	88	580	160	350*175*190	21.6	0	B	96	B1
37		49-650	100	650	170	350*175*190	22.7	0	B	96	B1
38		49-800	100	800	170	350*175*190	22.7	0	B	96	B1
39	51F	51F-405	45	405	67	240*130*200*220	12.6	0	B	175	B1
40	58	58-500	65	500	85	240*175*163*173	13.85	1	B	147	B1
41	65	65-550	75	550	136	301*190*170*190	19.9	1	B	105	B1
42	65R	65R-550	75	550	136	301*190*170*190	19.9	0	B	105	B1
43	75	75-460	45	460	80	230*180*180	14	1	E	168	B1
44		75-550	55	550	90	230*180*180	14	1	E	168	B1
45	78	78-550	55	550	98	260*178*182	15.4	1	E	144	B1
46		78-875	83	875	112	260*178*182	16.6	1	E	144	B1
47	85	85-550	55	550	90	230*172*180*200	14.8	0	B	147	B1
48	85R(88)	85R-550	55	550	90	230*172*180*200	14.8	1	B	147	B1
49	90	90-530	55	530	85	242*174*175*175	14.5	0	B	168	B1/B3
50	91	91-550	58	550	90	277*175*175*175	16.8	0	B	144	B1/B3
51	92/94R	92-550	80	550	135	315*175*180	21.2	0	B	120	B1/B3
52	93	93-780	81	780	140	354*174*175*175	22	0	B	96	B1/B3
53	4D	4D-100	150	1000	255	508*221*210*233	39.8	4	B	42	-
54	8D	8D-1200	200	1200	400	515*265*215*236	51.3	4	B	35	-
55		8D-1400	200	1400	480	515*265*215*236	52.8	4	B	35	-

TERMINAL AND HOLD DOWN FOR THE AUTOMOTIVE BATTERY

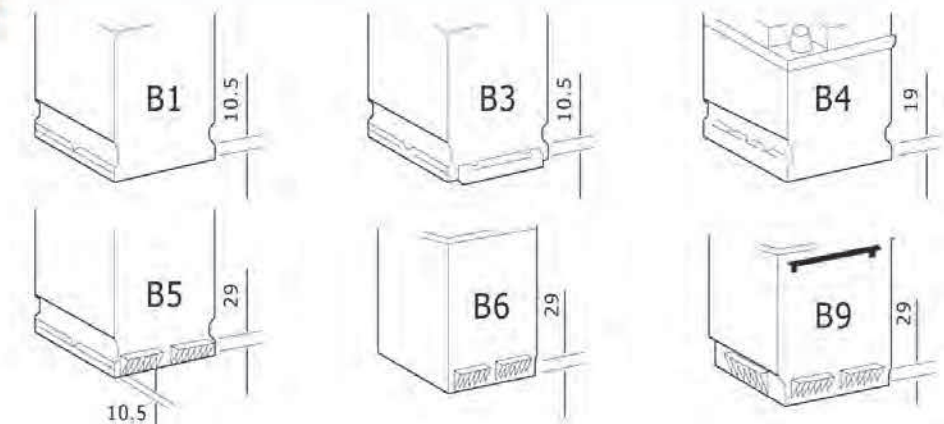
Terminal Type



Cell Layout



Hold Downs



VRLA STORAGE BATTERY FOR UPS APPLICATION

Characteristics:

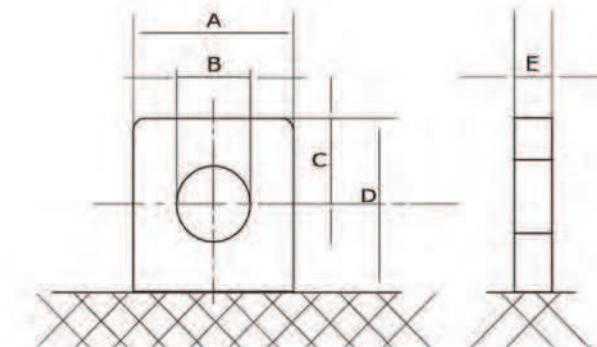
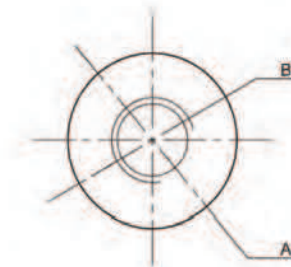
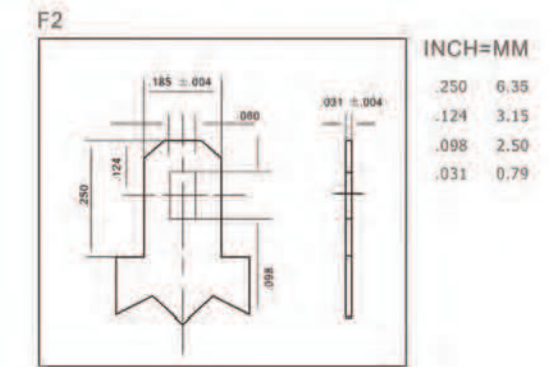
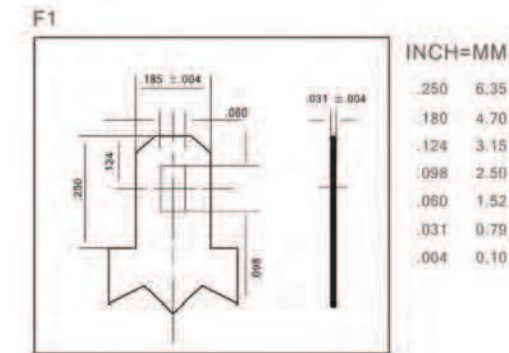
- 1.sealed construction, no electrolyte leakage from the terminals or case of any battery, efficient operation in any prientation;
- 2.maintenance free operation, no need to add water;
- 3.low self-discharge, the self-discharge rate below 3% per month;
- 4.special lead calcium alloy, good corrosion resistance and high recovery capacity;
- 5.reliable valve control system, sure safe operation of batteries.

VRLA Applicability:

Our VRLA Batteries can be widely use in Alarm Systems, Marine Equipment; Cable Television; Medical Equipment; Communications Equipment; Micro Processor Based Office Machines; Control Equipment; Portable Cine \$ Video Lights; Computers; Power Tools; Electronic Cash Registers; Solar Powered Systems; Electronic Test Equipment; Telecommunications Systems; Electric powered Bicycle and Wheelchairs; Television & Video Recorders; Emergency Lighting



BATTERY TERMINAL



TYPE	A	B
C1	φ12	M6
C2	φ14	M8
C3	φ16	M8
C4	φ20	M8

Measurement:MM					
TYPE	A	B	C	D	E
L1	12.0	φ5.5	4.8	12.0	2
L2	17.0	φ5.5	6.5	13.5	7
L3	15.0	φ6.5	7	14.0	7
L4	18.0	φ6.5	6	15.0	6
L5	17.0	φ6.5	8	16.0	8
L6	19.0	φ6.5	7.5	19.0	7
L7	18.0	φ8.5	8.5	18.0	8
L8	22.0	φ8.5	11	28.0	8
L9	25.0	φ8.5	12	30.0	8
L10	27.0	φ9.5	11	28.0	8
L11	28.0	φ10.0	11	28.0	10
L12	27.0	φ10.0	12	33.0	10



VRLA STORAGE BATTERY FOR UPS APPLICATION

General Purpose Usage(20Hr)(Ah)

BATTERY TYPE	NOMINAL VOLTAGE (V)	NOMINAL CAPACITY (20Hr)(Ah)	DIMENSION(MM)				WEIGHT (Appr.Kgs)	TERMINAL TYPE
			Length	Width	Height	T.Height		
3FM1.2	6	1.2	97	24	52	58	0.28	F1
3FM2	6	2	43	37	78	78	0.3	F1
3FM2.5	6	2.5	70	47	100	108	0.55	F1
3FM2.8	6	2.8	88	33	100	108	0.58	F1
3FM3.2	6	3.2	134	34	80	88	0.85	F1
3FM3.5	6	3.5	70	47	100	107	0.85	F1
3FM4	6	4	70	47	100	107	0.88	F1/F2
3FM4.5	6	4.5	70	47	100	107	0.74	F1/F2
3FM4.5	6	4.5	70	47	100	107	0.8	F1/F2
3FM6	6	6	70	47	100	107	0.85	F1/F2
3FM5.5	6	5.5	189	35	71	77	0.98	F1/F2
3FM7	6	7	150	34	84	100	1.1	F1/F2
3FM7.2	6	7.2	150	34	84	100	1.24	F1/F2
3FM7.5	6	7.5	150	34	84	100	1.25	F1/F2
3FM8	6	8	98	58	118	120	1.38	F1/F2
3FM10	6	10	151	50	84	100	1.88	F1/F2
3FM12	6	12	151	50	84	100	1.8	F1/F2
3FM14	6	14	108	71	141	141	2.3	F1/F2
6FM0.8	12	0.8	97	25	82	82	0.34	F1
6FM1.2	12	1.2	97	43	52	58	0.54	F1
6FM1.9	12	1.9	178	35	80	88	0.84	F1
6FM2	12	2	150	20	89	89	0.72	F1
6FM2.3	12	2.3	178	35	80	88	0.94	F1
6FM2.5	12	2.5	87	67	87	103	0.85	F1
6FM2.8	12	2.8	104	47	71	71	0.8	F1
6FM2.9	12	2.9	79	56	89	105	1.18	F1
6FM3	12	3	79	55	89	105	1.15	F1
6FM3.2	12	3.2	134	67	81	87	1.28	F1
6FM3.5	12	3.5	90	70	101	107	1.3	F1
6FM4	12	4	90	70	101	107	1.34	F1
6FM4.5	12	4.5	90	70	101	107	1.48	F1/F2
6FM4.5	12	4.5	90	70	101	107	1.6	F1/F2
6FM5	12	5	90	70	101	107	1.7	F1/F2
6FM6	12	6	151	50	85	95	1.85	F1/F2
6FM7	12	7	152	85	93	100	2.15	F1/F2
6FM7.2	12	7.2	152	85	93	100	2.34	F1/F2
6FM7.5	12	7.5	152	85	93	100	2.5	F1/F2
6FM8	12	8	152	85	93	100	2.5	F1/F2
6FM9	12	9	152	85	93	100	2.6	F1/F2
6FM10	12	10	151	98	95	101	3.4	F1/F2
6FM12	12	12	151	98	95	101	3.85	F1/F2
6FM14	12	14	151	98	95	101	4.05	F1/F2
6FM17	12	17	182	78	167	167	5.1	L1/C1
6FM17	12	17	182	78	167	167	4.8	L1/C1
6FM18	12	18	182	78	167	167	5.45	L1/C1
6FM20	12	20	182	78	167	167	5.9	L1/C1

General Purpose Usage(10Hr)(Ah)

BATTERY TYPE	NOMINAL VOLTAGE (V)	NOMINAL CAPACITY (10Hr)(Ah)	DIMENSION(MM)				WEIGHT (Appr.Kgs)	TERMINAL TYPE
			Length	Width	Height	T.Height		
8GFM24	12	24	187	175	128	128	808	L1/C1
8GFM28	12	28	185	128	175	182	9.5	L2
8GFM33	12	33	186	131	155	180	10.5	L2/C1
8GFM40	12	40	188	168	170	182	13.8	L4/C1
8GFM56	12	56	229	138	208	214	18	L8/C1
8GFM60	12	60	267	133	200	200	20	L8/C2
8GFM65	12	65	348	168	178	178	22	L8/C2
8GFM70	12	70	259	188	208	214	23	L7
8GFM75	12	75	259	188	208	214	25.5	L7
8GFM80	12	80	348	188	178	178	24	L8/C2
8GFM90	12	90	307	188	208	214	27.5	L7/C2
8GFM100	12	100	329	172	213	237	31	L9/C2
8GFM120	12	120	406	174	208	233	36.5	L11
8GFM150	12	150	488	170	241	241	45	L11
8GFM180	12	180	530	208	214	244	54	L12
8GFM200	12	200	522	240	219	275	63	L12

Deep Cycle Usage 2V Series:

BATTERY TYPE	RATED VOLT(V)	NOMINAL CAPACITY	DIMENSION(MM)				WEIGHT (Appr.Kgs)	TERMINAL TYPE
			Length	Width	Height	T.Height		
GFM150	2	150	172	102	205	227	12	L11
GFM200	2	200	173	111	329	365	15	L12
GFM300	2	300	171	151	330	366	21	L12
GFM400	2	400	211	178	329	367	28	L12
GFM500	2	500	241	172	331	368	32	L12
GFM600	2	600	301	175	331	368	42	L12
GFM800	2	800	410	175	330	385	58	L12
GFM1000	2	1000	475	175	328	385	70	L12
GFM1500	2	1500	401	351	342	378	110	L12
GFM2000	2	2000	491	351	344	383	140	L12

Deep Cycle Usage 6V、12V Series :

BATTERY TYPE	RATED VOLT(V)	NOMINAL CAPACITY (10Hr)(Ah)	DIMENSION(MM)				WEIGHT (Appr.Kgs)	TERMINAL TYPE
			Length	Width	Height	T.Height		
3GFM200	6	200	323	178	224	248	32	L12
8GFM33	12	33	186	131	155	180	11.5	L2/C1
8GFM40	12	40	188	168	170	170	13.8	L4/C1
8GFM56	12	56	229	138	208	227	18	L8/C1
8GFM60	12	60	267	133	200	200	23.5	L8/C2
8GFM65	12	65	348	168	178	178	48.8	L7
8GFM70	12	70	259	188	208	227	24.5	L7/C2
8GFM90	12	90	307	188	208	227	28.8	L8/C2
8GFM100	12	100	329	172	213	237	31.5	L9/C2
8GFM120	12	120	406	174	208	233	39	L11
8GFM150	12	150	488	170	241	241	48	L11
8GFM180	12	180	530	208	214	244	57	L11
8GFM200	12	200	522	240	219	244	68.5	L12
8GFM210	12	210	522	240	219	244	67	L12

Based on China

Tiger Head is on her way to the global markrt

We have a good team, including our workers, our every customer and consumer. We are together to make efforts and to enjoy the achievement.

In Overseas market, we open selling branches in West Africa and Middle East. And our products are widely exported to Canada, Italy, Germany, Netherland, Greece, Cyprus, Spain, Russia, etc; In South America, we have customers in Chile, Peru, Cuba, Jamaica, Suriname, etc; In Africa, South Africa, Nigeria, Cameroon, Ghana, Angola, Algeria, Sudan etc. In Midale east, UAE, Saudi Arabia, Yemen, Iraq, Kuwait,

