

KYOTO[®]

JAPAN

Symbol of Quality & performance



START  STOP



EFB TRUCK



A Family of Premium High Performance AGM, EFB, DIN, JIS Starter, Car, Bus, HeavyDuty Truck, Garden, Marine & Other Batteries.



MADE IN
ITALY



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Kyoto Japan Tire Group



A JAPANESE-SWISS GROUP OF COMPANIES WITHIN THE KTC GROUP;
SPECIALIZED IN DESIGN, MANUFACTURE AND DISTRIBUTION OF A WIDE RANGE
OF HIGH-QUALITY AUTOMOTIVE PRODUCTS UNDER THE EXCLUSIVE AND REGISTERED
BRAND OF "KYOTO JAPAN" THROUGHOUT THE WORLD .

The group has developed its international organization based on regional sales teams and has a network of Official Distributors & local clients throughout the world. Kyoto Japan devotes its talents and cutting-edge manufacturing technology to create a superior family of products, while providing international Warranty & After-Sales-Services from its European base in Switzerland. Kyoto Japan is a "One-Stop Shop" offering Quick Service Centre Concept and the following 10 families of Automotive & related products:

- Radial Tires
- Automotive AGM & MF Batteries
- Lubricants & Technical Greases
- Additives & Car Care Products
- Replacement Auto & Truck Parts
- Drive, Transmission & Hydraulics Systems
- Precision Ball & Roller Bearings
- Air-Conditioning & Refrigeration Gases
- Consumer Alkaline & Rechargeable Batteries
- Smart Connected LED Lighting & Spotlights



Kyoto Japan Family of Consumer Batteries



- Power Recharge AA & AAA 2600MAH & 950MAH
- Ultra Lithium AA & AAA
- Super Digital AA & AAA
- Super Alkaline AA & AAA
- Long Life carbon Zinc AA & AAA & C, D & 9V
- Lithium Button Cell CR2032, CR2025, CR2016
- Super Alkaline Cell LR44, LR43, LR41, LR66, LR54
- Hearing Aid Zinc Air ZA10, ZA13, ZA312, ZA675
- Charger



Kyoto Japan Quick Service Centres

Quick Service Centre is a novel concept offered on "Franchise Basis" by Kyoto Japan Tire Group in different markets, under the supervision of the local Kyoto Japan Official Distributor .

The concept allows the official distributor; or an investor or entrepreneur; to finance and develop a chain of such Quick Centres in specific region(s) in their market. It also provides an opportunity for an existing workshop or groups of workshops to modernize their facilities to enhance their operations and to increase their profitability. The stylish unique architectural design of Kyoto Japan Quick Service Centres; created by renowned European architects; differentiates them from competitor workshops. Each Quick Service Centre has a modern showroom with reception with a retail section, a

comfortable and stylish waiting area with all amenities on the mezzanine, reached by a modern curved staircase. The client waiting for service can relax in the lounge area on the mezzanine while viewing the service on their car in the service bays across full height glass partition. Quick Service Centres are modular and are ideally located in high traffic zones that offer good visibility with adequate customer parking with minimum 3 service bays. Kyoto Japan Quick Service Centres provide warranty and offer a range of quick replacement services for all vehicles; using Kyoto Japan original parts; namely: Changing Tires, Batteries, Brake Pads &

Discs, Clutch, Lubricants, Adding Oil, Fuel & Coolant Additives, Oil, Fuel, Air & Cabin Filters, Belts & Timing Belt/Chain, Spark Plugs, Lights, Wipers, Hoses, Adding Defrost Fluid, Adding Windscreen Washer, Car Wash, Cleaning & Polishing of the vehicle. Kyoto Japan will provide its high-quality parts and technical support for all services and all makes of vehicles and will provide consultancy on the selection of tooling and equipment. A training programme ensures that all technicians and staffs observe strict code of conduct and professional service. The franchisee would be obliged to comply with Kyoto Japan's Corporate Identity Standards.



Kyoto Japan Family of Automotive Batteries MADE IN ITALY



Environmental-Friendly Carton Packing

For selected markets we offer a range of full colour strong glossy carton packing with inside supports to keep batteries clean and well protected against dust and environmental pollution. All our batteries are shrink-wrapped on pallets.



Kyoto Japan Sealed, Maintenance-Free Batteries

Kyoto Japan produces a range of Sealed Maintenance-Free AGM & Starter Batteries with Magic-Eye in Italy according to highest international standards for European, American and Asian cars, trucks & buses. Another commercial range of Maintenance-Free & Dry-Charge batteries are produced in Korea & China.

- **Kyoto Japan AGM Car series**
- **Kyoto Japan EFB Car series**
- **Kyoto Japan Power Car Series**
- **Kyoto Japan Energy Car Series**
- **Kyoto Japan Asian Car Series**
- **Kyoto Japan Heavy Duty Truck Series**
- **Kyoto Japan EFB Truck Series**
- **Kyoto Japan Garden Series**
- **Kyoto Japan Marine Series**
- **Kyoto Japan Fork-Lift Truck Series**
- **Kyoto Japan NATO Series**

Highest standards of quality, endurance and safety tests, including the Roll-Over Test, comply well with the requirements of automobile manufacturers.

Kyoto Japan sealed Maintenance-Free batteries cover the following families of products:

- **Standard DIN**
- **Low DIN**
- **Standard JIS for Japanese & Korean Cars**
- **Trucks & Buses**
- **Heavy-Duty Trucks**

Kyoto Japan batteries are presented in an attractive mobile stand for display in service stations, retail outlets and auto showrooms. Kyoto Japan has a network of regional distributors and clients in Europe and throughout the world. Drop-Shipping with over-night deliveries are available for wholesalers and dealers within Europe. Retail clients can benefit from on-line shopping for most economical pricing within Europe.



Kyoto Japan Cast-Grid Technology for AGM Batteries

This wet charged series is made of cast Pb/Ca/Ag plates, in line with the new energy needs of cars equipped with the Start & Stop system. This is possible thanks to the innovative design of the grid, which allows exceptional power distribution during charging and discharging, ensuring a duration (cycles) higher than the energy of specific cars. The alloy is made with the use of primary lead (99.99%) with calcium / silver, for better charging, and therefore making them MAINTENANCE FREE, as well as having a very low self-discharge (temp. 25/30°C), in addition to exceptional corrosion resistance.



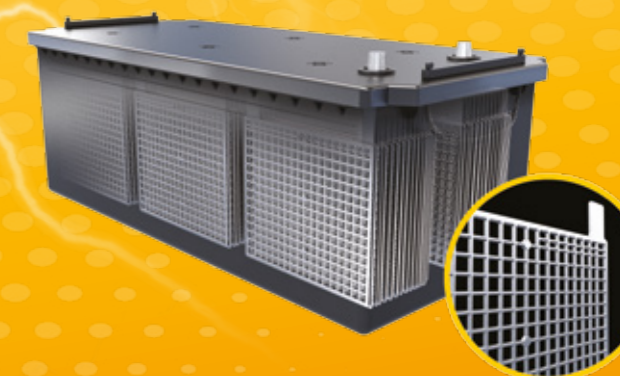
Kyoto Japan Expanded Grid-Technology for Cars

The wet charged series is made with flat Pb/Ca/St/Al plates of increased thickness to better withstand the effect of cycles (duration) over time, in line with the new energy needs of cars. This is possible thanks to the innovative design of the grid, which allows an excellent distribution of the current in the discharging and charging phases. The irregular diamond-shaped grid, which is narrower at the top of the grid and wider at the bottom, facilitates the chemical/electric reaction in the discharging and re-charging phases, thus enhancing starting performance, without sacrificing durability (life-cycle), thanks to the greater thickness of the plates. This is possible due to the widened cross points of at the geometric intersections. The alloy is manufactured using primary lead (99.99%) with calcium/aluminium and tin, so it is possible to support the concept of ZERO MAINTENANCE with very low self-discharge (temp. 25/30°C), in addition excellent resistance to corrosion.



Kyoto Japan Cast-Grid Technology for Trucks

The recent technological developments related to the manufacturing of the elements used for truck starter batteries, in specific grids, means that many manufacturers have chosen the expanded plates or punching. In the commercial vehicle sector the massive presence of electronics, electrical accessories, hydraulic and satellite systems, etc. means batteries do not start properly but, above all, that they must ensure a high energy supply as support even when the engine is switched off, particularly with E5-E6 engines. Kyoto Japan has always used cast grid technology, which is more robust and suitable to perform this dual task (starter and prolonged discharge). New grids (pos. and neg.) were made in view of the new requirements. With a new design studied to allow optimal performance of repeated discharges and recharges, as well as remarkable starting performance. More attention was focused on the thickness of the plate, in order to increase the nominal capacity (AH) of the battery. As is easy to understand, when analysing heavy vehicles used for transportation, agriculture, construction etc., we find ourselves faced with the usual problems of vibrations and bumps, present due to the uneven ground they have to cover. Specifically, the cast grid offers more robustness and reliability, without prejudicing devices for blocking elements, inside each cell of the box, which stop the fall of the active material on the plate. The alloy is manufactured using primary lead (99.99%) whether they are calcium (Ca) plates or those with a low content of antimony (Sb), which supports the ZERO MAINTENANCE concept and very low self-discharge (temp. 25/30°C), in addition to excellent corrosion resistance.



All tester provide an indicative measurement of the battery cold cranking, but no one is able to provide a precise measurement in accordance with en 50342 regulation

Kyoto Japan AGM Car Series New Technology

Kyoto Japan AGM Car Series batteries use a spongy separator that isolates both the negative and positive plates, as well as to withhold and distribute the electrolyte over the whole plate surface. This system uses a capillary action to enable the recombination of gas, thereby limiting leakage of oxygen and hydrogen. The little gas that cannot be recombined, is regulated by the VRLA valves on the caps. The separator is kept compressed between the plates to ensure complete contact with their surface and, therefore, electrical "continuity" and enables the constant supply of electrolyte to the electro-chemical reactions that take place in the elements. The cast grid technology in Pb/Ca/Ag alloy reduces gas formation and slows auto-discharge significantly, as a consequence of the fact that the acid is completely absorbed, meaning that it is not lost at all. The construction of this battery requires a significantly compact unit in the cells and the certainty



that the active material remains firmly anchored to the grid during charging and discharging. All this makes the battery very unlikely to short-circuit and highly-resistant to cycles and, therefore, particularly well-suited to vehicles fitted with "start and stop" systems, even if it can also be used in stationary situations.



Kyoto Japan EFB Car Series New Technology

Kyoto Japan EFB Car Series batteries represents the evolution of the AGM, but with a small part of "free" acid left exactly above the fibreglass. This successfully increases the battery's capacity by virtue of the greater presence of acid and the possibility of using the storage battery in higher temperature environments (engine compartment). It is also highly-resistant to cycles and the loss of acid remains in any case limited with respect to traditional batteries. The expanded grid technology in Pb/Ca alloy significantly reduces gas formation, as well as slowing auto-discharge. The positive plates are wrapped in the polyethylene bag separator containing the spongy separator (AGM) in order to prevent potential short-circuits caused by the irregularity



of the expanded grid. The special hermetic lid and the inclusion of caps with the VRLA valve ensures maximum safety; in fact, the battery does not leak acid.

Kyoto Japan DIN Power Series New Technology

The DIN Power Series range is developed using expanded grid technology in Pb/Ca alloy and therefore is MAINTENANCE FREE and with very low auto-discharge. The positive plate is thicker, improving the battery performance in cycles, in compliance with the new energetic car demands. The cold-cranking is high and the battery has a good resistance to the corrosion.

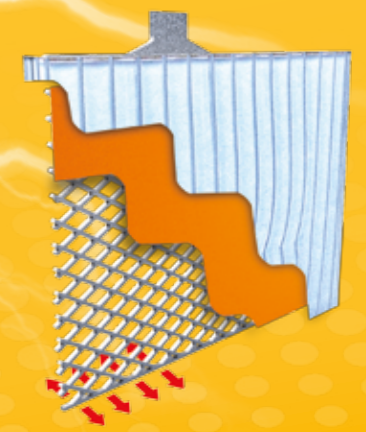
The main characteristic of this battery is the DUPLEX lid (with a charge indicator) which prevents the acid leak in case of overturning.



Kyoto Japan DIN Energy Series New Technology

DIN Energy Series batteries are designed to meet the most stringent performance requirements of the type of vehicles in use. They have been developed to ensure high performance in any condition of use. The Energy range in the charged version is made with expanded grid Pb/Ca technology, while the dry charge version is made with Pb/Sb alloy. The latter minimises the effect of hydrolysis and consequently the consumption of water.

At the same time, it limits the accumulator's self-discharge phenomenon. Due to this series of factors the battery fully deserves to be called MAINTENANCE FREE. The lead used in the construction of the grids has a degree of purity of 99.99% and comes directly from mines, which gives the battery a very high resistance to corrosion. The thickness of the positive plates is greater than standard technology. This choice was made to ensure a greater reserve of energy and longer cycles, with the aim of satisfying the ever more demanding request of onboard electronics. The HI-PERFORMANCE polyethylene envelope separator has a high mechanical strength which is a guarantee against internal short circuits. The cover, with its centralised degasification, has an explosion-proof pad inserted in it which minimises the possibility of explosions, caused by accidental emission of external sparks and flames. There is also a higher safety level in the smooth surface plugs, to limit the possibility of opening by non-expert personnel.



Kyoto Japan JIS Asian Series New Technology

Kyoto Japan JIS Asian Car Series batteries are sized for use on Asian vehicles. Maintenance is zero thanks to the use of grids obtained through the expansion of foils in metal alloys of Lead/Calcium/Tin, which make water consumption basically negligible and ensure greater resistance to corrosion of the positive electrodes thanks to the extremely reduced grid porosity. Low auto-discharge in normal conditions of storage in cool, dry places (20° C RH 50%). The series is also fitted with an optical hydrometer device for controlling the level of the electrolyte

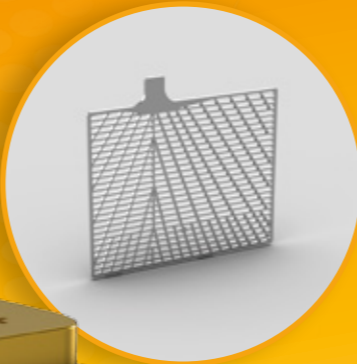
inside the battery. The lid has a handle fitted into it with an ergonomic design, to ensure easy transport and installation into areas where space is limited. Greater safety is also guaranteed by the sealed lid. The presence of the antiexplosion pad in the lid prevents any external sparks or flames from penetrating inside the battery and causing explosion. The series has been developed to meet the needs of Asian vehicles, in respect of dimensions, polarity and manufacturer characteristics.



Kyoto Japan AGM Car Series

Wet Charged Version

Cast-Grid Technology
for AGM Batteries

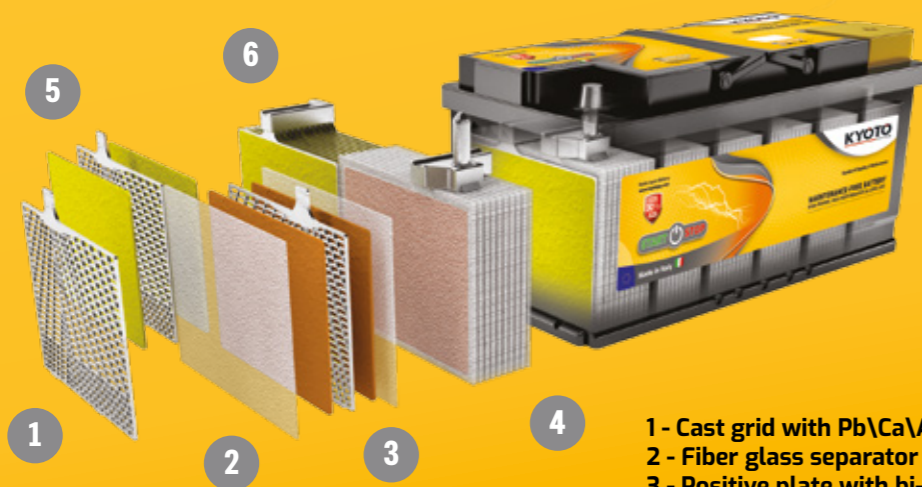


- Wet charged and ready to use from 50 to 110 Ah
- Hybrid technology with positive cast grids with Pb\Ca\Ag and negative expanded grids with Pb\Ca
- Special absorbent separator (AGM) with gas recombination
- Hermetic lid

- Special plugs with VRLA valve
- High performance and cycle life
- Heavy Duty (V3) vibration resistant
- 180-degree rotation without leakage
- Very low self-discharge
- Maintenance free



- LOW MAINTENANCE
- ANTI EXPLOSION
- ANTI VIBRATION
- LOW SELF-DISCHARGE
- ENERGY ON BOARD
- FIBER GLASS
- SPONGY SEPARATOR
- HERMETIC LID
- START STOP

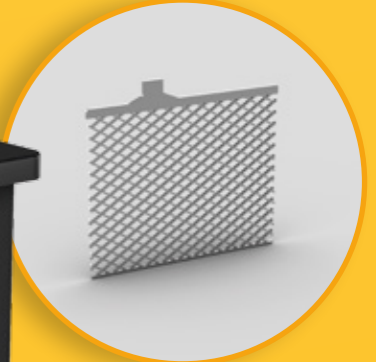


- 1 - Cast grid with Pb\Ca\Ag alloy
- 2 - Fiber glass separator
- 3 - Positive plate with bi-oxide and separator
- 4 - Positive set with separator
- 5 - Negative plate with spongy Pb
- 6 - Negative set



Kyoto Japan EFB Car Series

Wet Charged Version



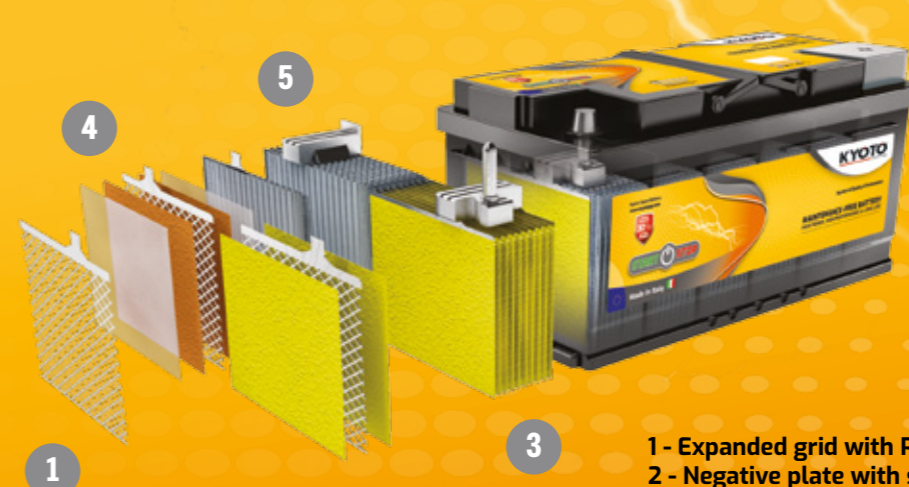
Expanded Grid
Technology for Cars

- Wet charged and ready to use from 60 to 90 Ah
- Expanded alloy grids technology with Pb\Ca
- High performance and cycle life
- Heavy Duty (V3) vibration resistant

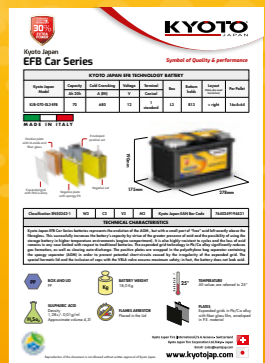
- Resistant to high temperatures
- Maintenance free
- Low self-discharge



- LOW MAINTENANCE
- ANTI EXPLOSION
- ANTI VIBRATION
- LOW SELF-DISCHARGE
- ENERGY ON BOARD
- DOUBLE LID
- ENVELOPE SEPARATOR
- START STOP



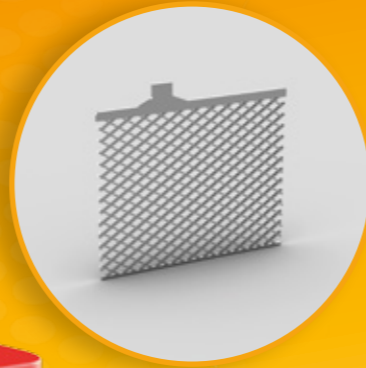
- 1 - Expanded grid with Pb\Ca alloy
- 2 - Negative plate with spongy Pb
- 3 - Negative set
- 4 - Positive plate with bi-oxide and fiber glass
- 5 - Enveloped positive set



Kyoto Japan Power Series

Wet Charged Version

Expanded Grid Technology for Cars

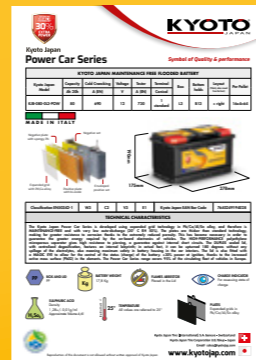


- Wet charged and ready to use from 45 to 100 Ah
- Expanded alloy grids technology with Pb\Ca
- Thicker plates
- Higher starting capacity
- Hi-performance polyethylene envelope separator
- +35% starter power
- 180 degree rotation without leakage

- Hermetic DUPLEX lid with gas recovery
- Explosion-proof pad
- Very low self-discharge
- Vibration resistant (V3)
- Maintenance free
- Magic eye + caps with double o-ring



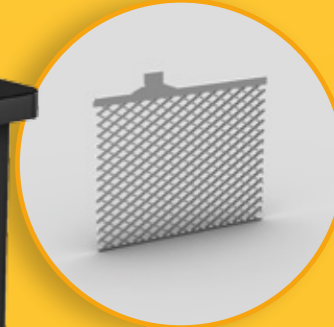
- 1 - Expanded grid with Pb\Ca alloy
- 2 - Positive plate with bi-oxide
- 3 - Enveloped positive set
- 4 - Negative plate with spongy Pb
- 5 - Negative set
- 6 - Charge indicator



Kyoto Japan Energy Car Series

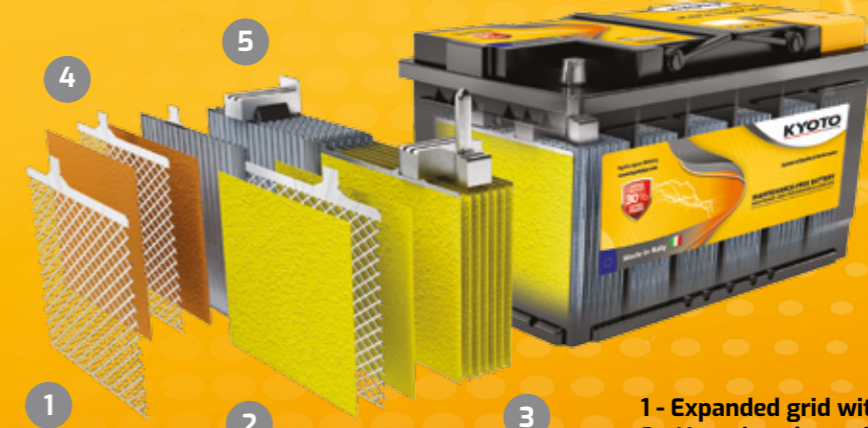
Wet Charged Version

Expanded Grid Technology for Cars

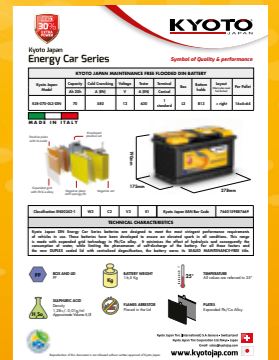


- Wet charged and ready to use from 45 to 110 Ah
- Expanded alloy grids technology with Pb\Ca
- Thicker plates
- Hi-performance polyethylene envelope separator
- Hermetic DUPLEX lid with centralised gas recovery
- 180 degree rotation without leakage

- Higher starting capacity
- Explosion-proof pad
- Very low self-discharge
- Vibration resistant (V3)
- Maintenance free



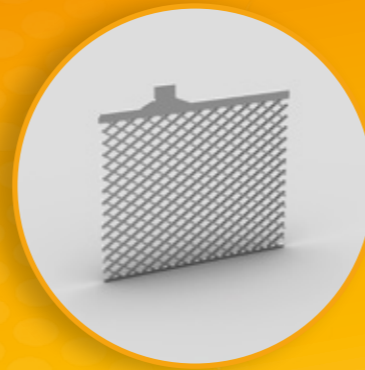
- 1 - Expanded grid with Pb\Ca alloy
- 2 - Negative plate with spongy Pb
- 3 - Negative set
- 4 - Positive plate with bi-oxide
- 5 - Enveloped positive set



Kyoto Japan JIS Asian Series

Wet Charged Version

Expanded Grid
Technology for Cars



- Wet charged and ready to use from 35 to 100 Ah
- Expanded alloy grids technology with Pb\Ca^o and low Sb cast Pb\Sb grids (Cast grid with Pb/Sb alloy for certain models)
- Thicker plates
- Centralised degasification cover

- Maintenance free
- Explosion proof pad
- Recessed ergonomic handle
- Magic eye
- Very low self-discharge
- Vibration resistant (V2)



LOW MAINTENANCE



ANTI EXPLOSION



ENVELOPE SEPARATOR



ANTI VIBRATION



LOW SELF-DISCHARGE



MAGIC EYE



DOUBLE COVER



- 1 - Expanded grid with Pb\Ca alloy*
- 2 - Positive plate with bi-oxide
- 3 - Enveloped positive set
- 4 - Negative plate with spongy Pb
- 5 - Negative set
- 6 - Charge indicator

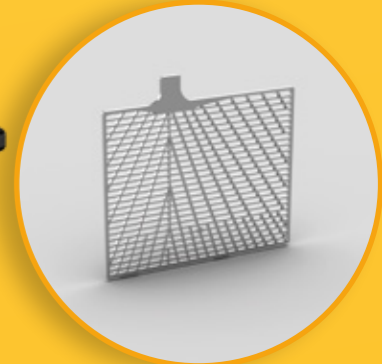


MADE IN
ITALY

Kyoto Japan Garden Series

Dry and wet Charged Version

KYOTO
JAPAN



Cast-Grid Technology
for Lawn mowers

- Dry charged from 24 to 32 Ah
- Casted grids technology with Pb\Sb
- Thicker plates
- High starter capacity
- Hi-performance polyethylene envelope separator

- Cover with centralised degassing
- Explosion proof pad
- Very low self-discharge
- Vibration resistant (V3)
- Low maintenance



ANTI EXPLOSION



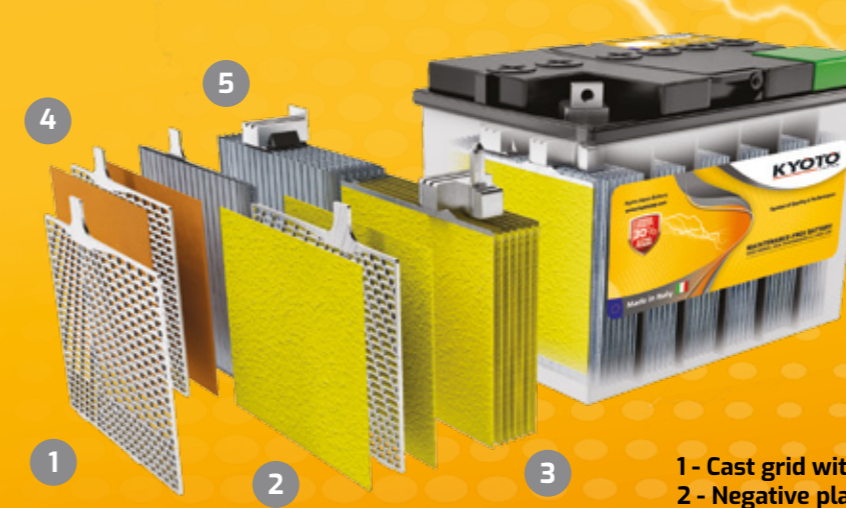
ANTI VIBRATION



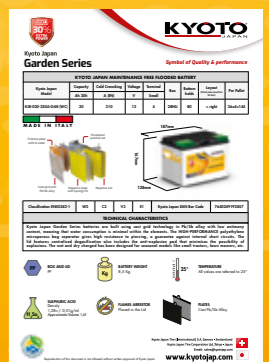
LOW SELF-DISCHARGE



ENVELOPE SEPARATOR



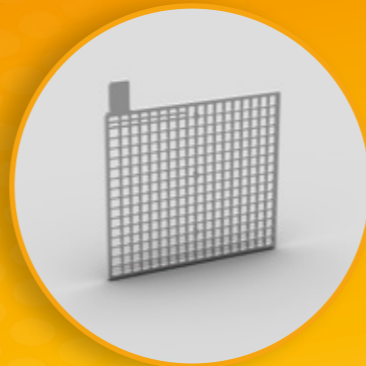
- 1 - Cast grid with Pb/Sb alloy
- 2 - Negative plate with spongy Pb
- 3 - Negative set
- 4 - Positive plate with bi-oxide
- 5 - Enveloped positive set



MADE IN
ITALY

Kyoto Japan Heavy Duty Truck series

Wet Charged Version



Cast Grid Technology for Trucks



- Wet charged and ready to use from 100 to 240 Ah
- Casted grids technology with Pb\Sb
- New grid design
- Thicker plates

- Polyethylene envelope separator
- Vibration resistant (V2)
- Very low self-discharge
- Low maintenance



- LOW MAINTENANCE
- ANTI EXPLOSION
- ENVELOPE SEPARATOR
- ANTI VIBRATION
- LOW SELF-DISCHARGE
- ENERGY ON BOARD



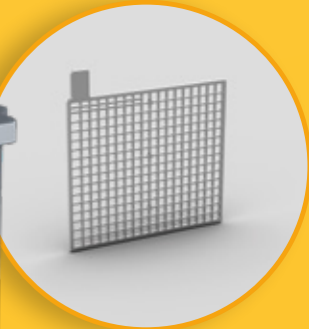
- 1 - Cast grid with Pb\Sb alloy
- 2 - Positive plate with bi-oxide
- 3 - Enveloped positive set
- 4 - Negative plate with spongy Pb
- 5 - Negative set



Kyoto Japan EFB Truck series

Wet Charged Version

Cast Grid Technology for Trucks

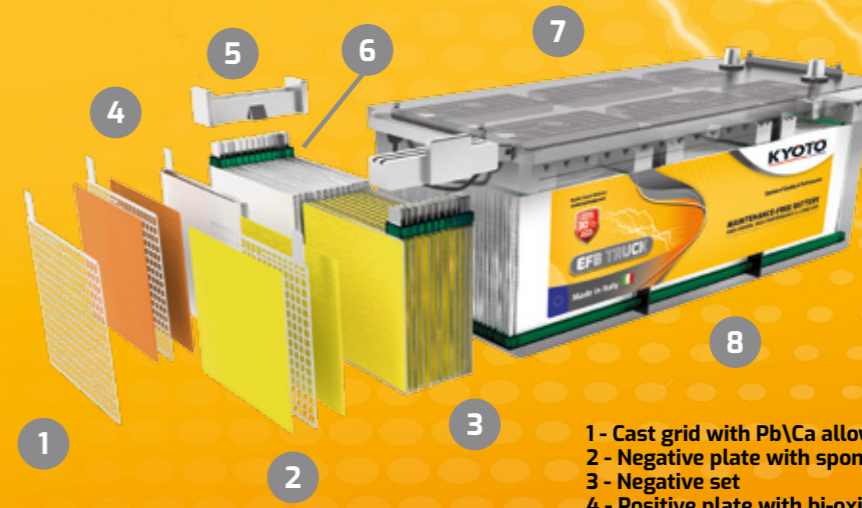


- Wet charged and ready to use from 140 to 230 Ah
- Casted grids technology with Pb\Ca
- Special absorbent separator (AGM)
- Sealed lid with centralized degassing
- Thicker plates
- Flame arrestor pad

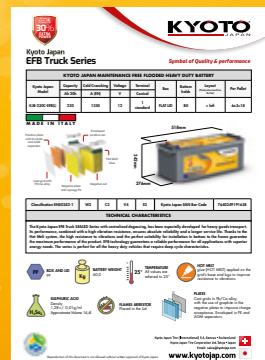
- Polyethylene envelope separator
- Vibration resistant (V4)
- Long life cycle
- High cold cranking
- 'Hot Melt' glue
- Maintenance-free



- LOW MAINTENANCE
- ANTI EXPLOSION
- ANTI VIBRATION
- LOW SELF-DISCHARGE
- ENERGY ON BOARD
- SPONGY SEPARATOR
- HERMETIC LID
- START STOP



- 1 - Cast grid with Pb\Ca alloy
- 2 - Negative plate with spongy Pb
- 3 - Negative set
- 4 - Positive plate with bi-oxide and AGM separator
- 5 - Enveloped positive set
- 6 - 'Hot Melt' Glue applied on the strap
- 7 - Lid with centralized degassing system
- 8 - 'Hot Melt' glue applied at the bottom of each plate compartment



Kyoto Japan Marine Series

Wet Charged Version

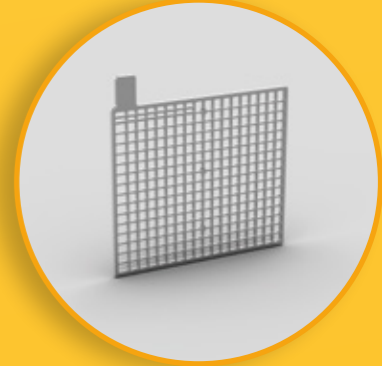
Cast-Grid Technology for AGM Batteries



Kyoto Japan Lift-Truck Series

Wet Charged Version

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JAPAN



Cast-Grid Technology for Trucks

- Wet charged from 70 to 225 Ah
- Casted grids technology with Pb\Ca\Ag
- Thicker plates
- High starter capacity
- Hi-performance polyethylene envelope separator

- Polyethylene envelope separator
- Very low self-discharge
- Vibration resistant
- Low maintenance



- Wet charged and ready to use from 105 to 240 Ah
- Casted grids technology with Pb\Sb
- Stationary and small traction
- Flat plates with high thickness

- Envelope separator with fiber glass
- Low maintenance
- Long life cycle



LOW MAINTENANCE



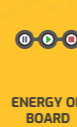
ANTI EXPLOSION



ANTI VIBRATION



LOW SELF-DISCHARGE



ENERGY ON BOARD



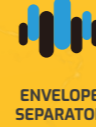
FIBER GLASS



SPONGY SEPARATOR



HERMETIC LID



ENVELOPE SEPARATOR



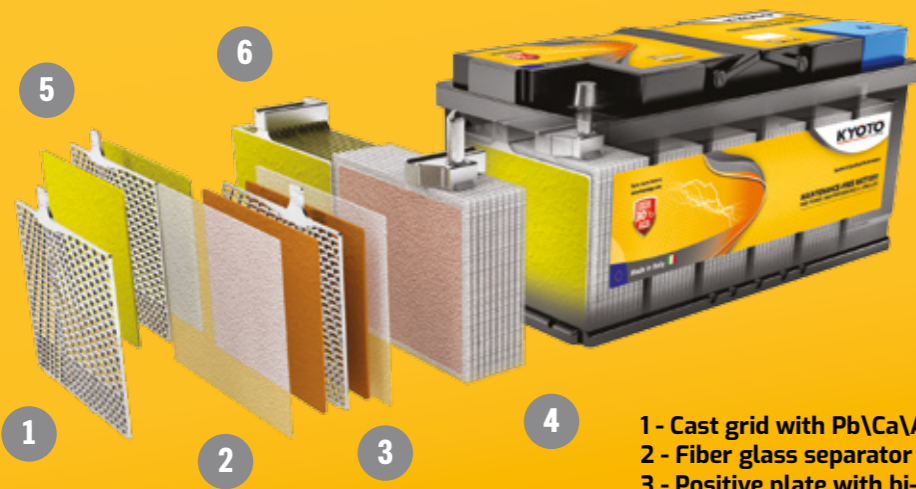
ANTI VIBRATION



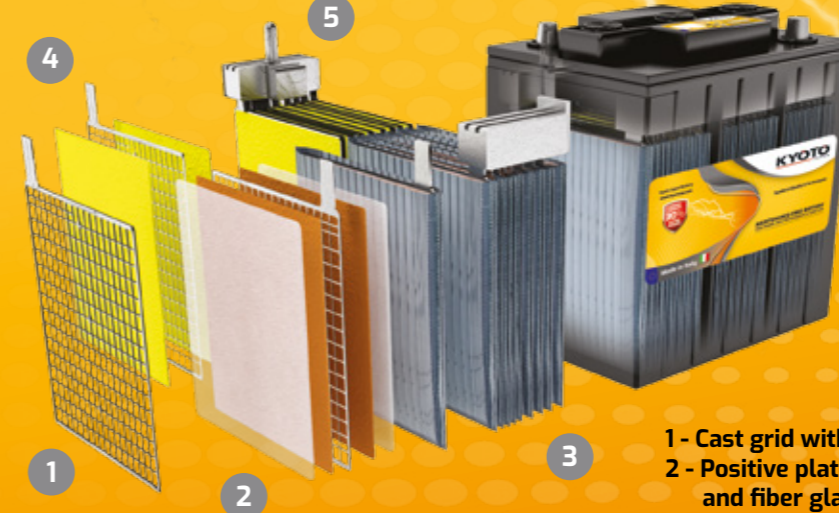
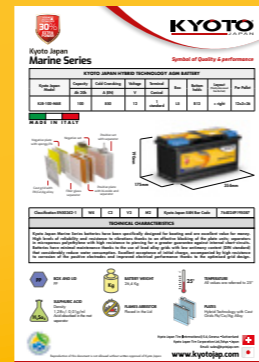
FIBER GLASS



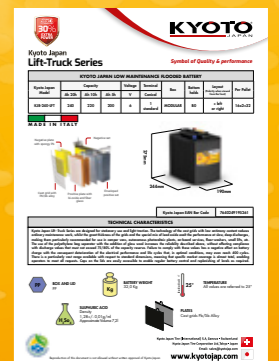
ENERGY ON BOARD



- 1 - Cast grid with Pb\Ca\Ag alloy
- 2 - Fiber glass separator
- 3 - Positive plate with bi-oxide and separator
- 4 - Positive set with separator
- 5 - Negative plate with spongy Pb
- 6 - Negative set



- 1 - Cast grid with Pb\Sb alloy
- 2 - Positive plate with bi-oxide and fiber glass
- 3 - Enveloped positive set
- 4 - Negative plate with spongy Pb
- 5 - Negative set

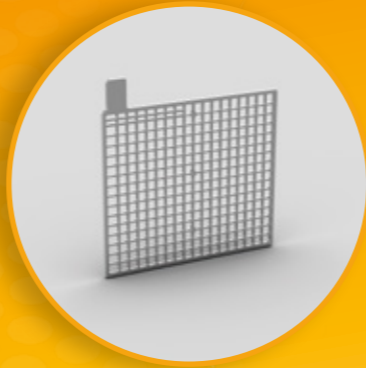


MADE IN ITALY

MADE IN ITALY

Kyoto Japan NATO Series Dry Charged Version

Cast-Grid Technology
for Trucks



- Dry charged from 100 to 125 Ah
- Casted grids technology with Pb\Sb
- New grid design
- Thicker plates

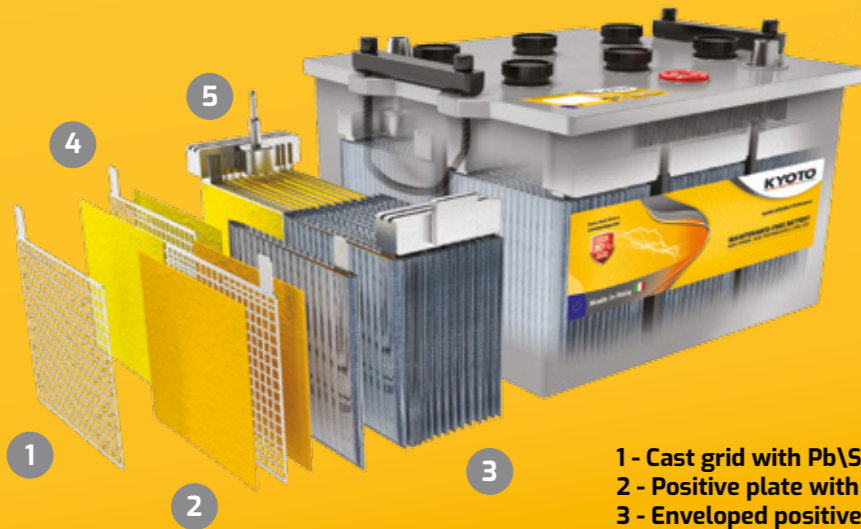
- Polyethylene envelope separator
- Vibration resistant (V3)
- Very low self-discharge
- Low maintenance



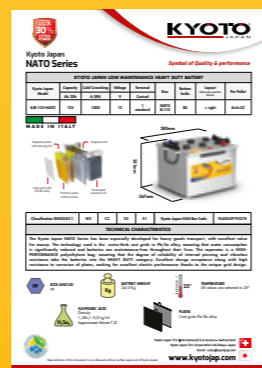
ENVELOPE
SEPARATOR



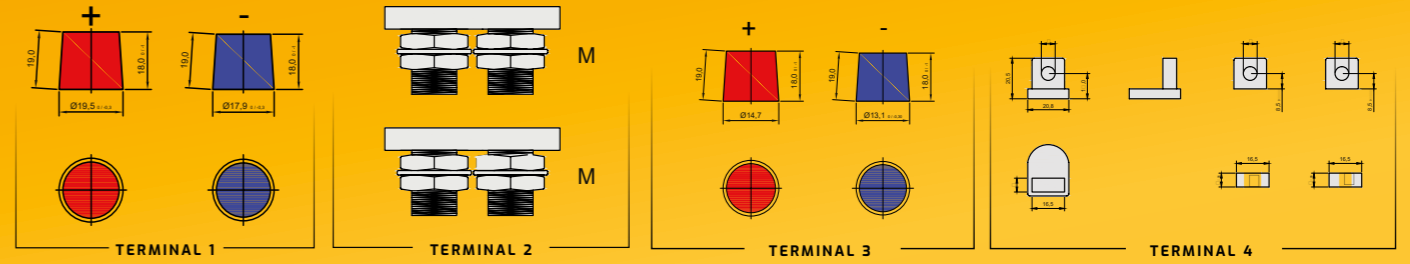
LOW
SELF-DISCHARGE



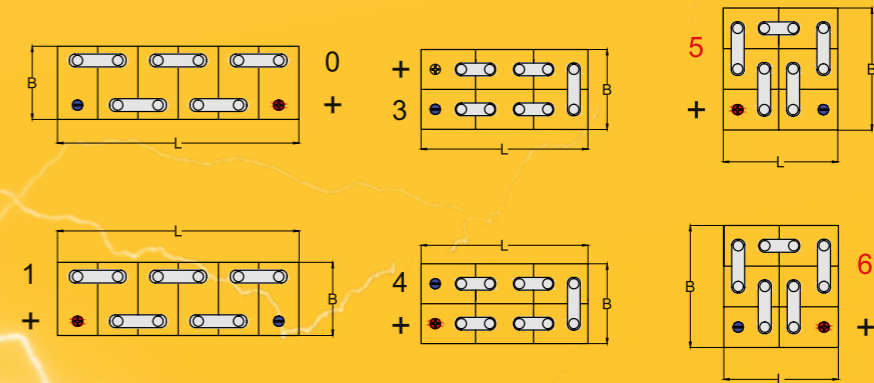
- 1 - Cast grid with Pb\Sb alloy
- 2 - Positive plate with bi-oxide
- 3 - Enveloped positive set
- 4 - Negative plate with spongy Pb
- 5 - Negative set



TYPES OF TERMINALS



BATTERY LAYOUT 12V



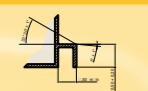
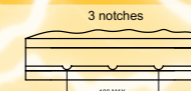
CODE

B3=B4: with adapters

B 00

Without hold down

B 01



B 03



B 04



B 05



B 06



B 07



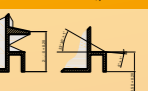
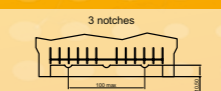
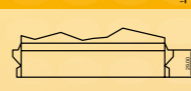
B 09



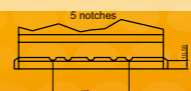
B 11



B 12



B 13



B 14



Kyoto Japan Full Range of Maintenance-Free & other Batteries Made in Italy

Ah	DIN JIS	Kyoto Japan Battery Code	Polarity (Viewed from Front)	Magic Eye	Capacity C20	C.C.A.	Tester C.C.A.	Voltage	Classification
					Ah	(A/EN)	(A/EN)	Volts	

Kyoto Japan AGM Start-Stop Series Car Batteries - Premium Charge +35% Starter Power

Hybrid Technology with Cast Grids, Pb/Ca/Ag, Hermetic lid, ready to use.



50	DIN	KJB-050-0L1-AGM	+ on the Right	- +	Gold Terminal Cover	50	50	530	12	EN50342
60	DIN	KJB-060-0L2-AGM	+ on the Right	- +	Gold Terminal Cover	60	60	640	12	EN50342
70	DIN	KJB-070-0L3-AGM	+ on the Right	- +	Gold Terminal Cover	70	70	750	12	EN50342
80	DIN	KJB-080-0L4-AGM	+ on the Right	- +	Gold Terminal Cover	80	80	810	12	EN50342
90	DIN	KJB-090-0L5-AGM	+ on the Right	- +	Gold Terminal Cover	90	90	850	12	EN50342
110	DIN	KJB-110-0L6-AGM	+ on the Right	- +	Gold Terminal Cover	110	110	950	12	EN50343

Kyoto Japan EFB Series Car Batteries - Premium Charge +35% Starter Power

EFB Technology with Expanded Grids, Pb/Ca Alloy, Hermetic lid with VRLA valve, ready to use.



60	DIN	KJB-060-0L2-EFB	+ on the Right	- +	Silver Terminal Cover	60	580	-	12	EN50342-1
65	DIN	KJB-065-L3B-EFB	+ on the Right	- +	Silver Terminal Cover	65	650	-	12	EN50342-1
70	DIN	KJB-070-0L3-EFB	+ on the Right	- +	Silver Terminal Cover	70	680	-	12	EN50342-1
75	DIN	KJB-075-L4B-EFB	+ on the Right	- +	Silver Terminal Cover	75	730	-	12	EN50342-1
80	DIN	KJB-080-0L4-EFB	+ on the Right	- +	Silver Terminal Cover	80	750	-	12	EN50342-1
90	DIN	KJB-090-0L5-EFB	+ on the Right	- +	Silver Terminal Cover	90	850	-	12	EN50342-1

Kyoto Japan Power Series Car Batteries - Super Charge +35% Starter Power

Maintenance-Free, Wet-Charged, Sealed, Expanded alloy grids technology with Pb/Ca, Hermetic DUPLEX lid, with centralised degassing cover, with Magic Eye, ready to use.



45	DIN	KJB-045-L1B-POW	+ on the Right	- +	Magic Eye	45	400	430	12	EN50342
	DIN	KJB-045-0L1-POW	+ on the Right	- +	Magic Eye	45	400	430	12	EN50342
55	DIN	KJB-055-0L1-POW	+ on the Right	- +	Magic Eye	55	500	530	12	EN50342
60	DIN	KJB-060-L2B-POW	+ on the Right	- +	Magic Eye	60	500	530	12	EN50342
	DIN	KJB-060-0L2-POW	+ on the Right	- +	Magic Eye	60	500	530	12	EN50342
65	DIN	KJB-065-L2B-POW	+ on the Right	- +	Magic Eye	65	600	630	12	EN50342
	DIN	KJB-065-0L2-POW	+ on the Right	- +	Magic Eye	65	600	630	12	EN50342
77	DIN	KJB-077-L3B-POW	+ on the Right	- +	Magic Eye	77	690	730	12	EN50342
80	DIN	KJB-080-0L3-POW	+ on the Right	- +	Magic Eye	80	690	730	12	EN50342
88	DIN	KJB-088-L4B-POW	+ on the Right	- +	Magic Eye	88	820	850	12	EN50342
95	DIN	KJB-095-L5B-POW	+ on the Right	- +	Magic Eye	95	850	900	12	EN50342
	DIN	KJB-095-0L4-POW	+ on the Right	- +	Magic Eye	95	820	850	12	EN50342
100	DIN	KJB-100-0L5-POW	+ on the Right	- +	Magic Eye	100	850	900	12	EN50342

ETN	Battery Construction	Box	Hold Down	Weight	Quantity per Pallet	Dimensions mm			Kyoto Japan EAN Bar Codes
				Kgs		Length	Width	Height	



550901053	Hybrid AGM Technology	L1	B13	15,20	20x4	80	207	175	190	7640159887423
560901068	Hybrid AGM Technology	L2	B13	17,80	18x3	54	242	175	190	7640159887430
570901076	Hybrid AGM Technology	L3	B13	20,30	16x3	48	278	175	190	7640159887447
580901080	Hybrid AGM Technology	L4	B13	23,10	14x3	42	310	175	190	7640159887454
595901085	Hybrid AGM Technology	L5	B13	26,40	12x3	36	354	175	190	7640159887461
605901095	Hybrid AGM Technology	L6	B13	30,00	12x3	36	394	175	190	7640159888529



560500058	EFB Technology	L2	B13	15,70	18X4	72	242	175	190	7640249194417
565500065	EFB Technology	L3B	B13	16,80	16X4	64	278	175	175	7640249194424
570500068	EFB Technology	L3	B13	18,00	16X4	64	278	175	190	7640249194431
575500073	EFB Technology	L4B	B13	19,30	14X4	56	310	175	175	7640249194448
580500075	EFB Technology	L4B	B13	20,60	14X4	56	310	175	190	7640249194455
590500085	EFB Technology	L5	B13	22,70	12X4	48	354	175	190	7640249194462



544402044	Hermetic Duplex Lid & Sealed	L1B	B13	11,40	20x4	80	207	175	175	7640249193946
545400044	Hermetic Duplex Lid & Sealed	L1	B13	12,10	20x4	80	207	175	190	7640249193953
552400047	Hermetic Duplex Lid & Sealed	L1	B13	13,00	20x4	80	207	175	190	7640249193960
560409054	Hermetic Duplex Lid & Sealed	L2B	B13	14,00	18x4	72	242	175	175	7640249193977
560408054	Hermetic Duplex Lid & Sealed	L2	B13	14,70	18x4	72	242	175	190	7640249193984
561400060	Hermetic Duplex Lid & Sealed	L2B	B13	14,80	18x4	72	242	175	175	7640249193991
563400061	Hermetic Duplex Lid & Sealed	L2	B13	15,60	18x4	72	242	175	190	7640249194004
574402075	Hermetic Duplex Lid & Sealed	L3B	B13	17,00	16x4	64	278	175	175	7640249194011
577400078	Hermetic Duplex Lid & Sealed	L3	B13	17,80	16x4	64	278	175	190	7640249194028
585200080	Hermetic Duplex Lid & Sealed	L4B	B13	19,70	14x4	56	310	175	175	7640249194035
595112083	Hermetic Duplex Lid & Sealed	L5B	B13	21,20	12x4	48	354	175	175	7640249194042
585400080	Hermetic Duplex Lid & Sealed	L4	B13	21,00	14x4	56	310	175	190	7640249194059
600402083	Hermetic Duplex Lid & Sealed	L5	B13	22,80	12x4	48	354	175	190	7640249194066

Ah	DIN JIS	Kyoto Japan Battery Code	Polarity (Viewed from Front) - +	Magic Eye	Capacity C20	C.C.A.	Tester C.C.A	Voltage	Classification
					Ah	(A/EN)	(A/EN)	Volts	

Kyoto Japan DIN Energy Series Car Batteries - Extra Charge +35% Starter Power

Maintenance-Free, Wet-Charged, Sealed, Expanded alloy grids technology with Pb/Ca, with centralised degassing cover, ready to use.



45	DIN	KJB-045-0L0-DIN	+ on the Right	- +	Yellow Terminal Cover	45	390	430	12	EN50342
	DIN	KJB-045-L1B-DIN	+ on the Right	- +	Yellow Terminal Cover	45	360	390	12	EN50342
	DIN	KJB-045-0L1-DIN	+ on the Right	- +	Yellow Terminal Cover	45	360	390	12	EN50342
	DIN	KJB-045-0L1-DIN (L)	+ on the Left	+ -	Yellow Terminal Cover	45	360	390	12	EN50342
	DIN	KJB-045-L1B-DIN	+ on the Right	- +	Yellow Terminal Cover	45	400	430	12	EN50342
	DIN	KJB-045-0L1-DIN	+ on the Right	- +	Yellow Terminal Cover	45	400	430	12	EN50342
50	DIN	KJB-050-L1B-DIN	+ on the Right	- +	Yellow Terminal Cover	50	450	480	12	EN50342
	DIN	KJB-050-0L1-DIN	+ on the Right	- +	Yellow Terminal Cover	50	450	480	12	EN50342
	DIN	KJB-050-0L1-DIN(L)	+ on the Left	+ -	Yellow Terminal Cover	50	450	480	12	EN50342
55	DIN	KJB-055-L2B-DIN	+ on the Right	- +	Yellow Terminal Cover	55	450	480	12	EN50342
	DIN	KJB-055-0L2-DIN	+ on the Right	- +	Yellow Terminal Cover	55	500	530	12	EN50342
60	DIN	KJB-060-L2B-DIN	+ on the Right	- +	Yellow Terminal Cover	60	510	530	12	EN50342
	DIN	KJB-060-L2B-DIN(L)	+ on the Left	+ -	Yellow Terminal Cover	60	510	530	12	EN50342
60	DIN	KJB-060-0L2-DIN	+ on the Right	- +	Yellow Terminal Cover	60	510	530	12	EN50342
	DIN	KJB-060-0L2-DIN(L)	+ on the Left	+ -	Yellow Terminal Cover	60	510	530	12	EN50342
65	DIN	KJB-065-0L2-DIN	+ on the Right	- +	Yellow Terminal Cover	65	540	580	12	EN50342
	DIN	KJB-065-0L2-DIN(L)	+ on the Left	+ -	Yellow Terminal Cover	65	540	580	12	EN50342
66	DIN	KJB-066-0L3-DIN	+ on the Right	- +	Yellow Terminal Cover	66	610	630	12	EN50342
70	DIN	KJB-070-L3B-DIN	+ on the Right	- +	Yellow Terminal Cover	70	580	630	12	EN50342
	DIN	KJB-070-L3B-DIN(L)	+ on the Left	+ -	Yellow Terminal Cover	70	580	630	12	EN50342
	DIN	KJB-070-0L3-DIN	+ on the Right	- +	Yellow Terminal Cover	70	580	630	12	EN50342
	DIN	KJB-070-0L3-DIN (L)	+ on the Right	- +	Yellow Terminal Cover	70	580	630	12	EN50342
74	DIN	KJB-074-0L3-DIN	+ on the Right	- +	Yellow Terminal Cover	74	690	680	12	EN50342
75	DIN	KJB-075-L3B-DIN	+ on the Right	- +	Yellow Terminal Cover	75	640	680	12	EN50342
	DIN	KJB-075-0L3-DIN	+ on the Right	- +	Yellow Terminal Cover	75	640	680	12	EN50342
	DIN	KJB-075-0L3-DIN(L)	+ on the Left	+ -	Yellow Terminal Cover	75	640	680	12	EN50342
80	DIN	KJB-080-0L3-DIN	+ on the Right	- +	Yellow Terminal Cover	80	680	730	12	EN50342
	DIN	KJB-080-L3B-DIN	+ on the Right	- +	Yellow Terminal Cover	80	680	730	12	EN50342
85	DIN	KJB-085-L4B-DIN	+ on the Right	- +	Yellow Terminal Cover	85	760	800	12	EN50342
88	DIN	KJB-088-L5B-DIN	+ on the Right	- +	Yellow Terminal Cover	88	760	800	12	EN50342
	DIN	KJB-088-0L5-DIN	+ on the Right	- +	Yellow Terminal Cover	88	760	800	12	EN50342
90	DIN	KJB-090-0L4-DIN	+ on the Right	- +	Yellow Terminal Cover	90	760	800	12	EN50342
95	DIN	KJB-095-L5B-DIN	+ on the Right	- +	Yellow Terminal Cover	95	850	900	12	EN50342
100	DIN	KJB-100-0L5-DIN	+ on the Right	- +	Yellow Terminal Cover	100	850	900	12	EN50342
110	DIN	KJB-110-0L6-DIN	+ on the Right	- +	Yellow Terminal Cover	110	950	980	12	EN50342

ETN	Battery Construction	Box	Hold Down	Weight	Quantity per Pallet	Dimensions mm			Kyoto Japan EAN Bar Codes
				Kgs		Length	Width	Height	



544401042	MF + Degassing Sealed Cover	L0	B13	10.00	24x4	96	175	175	190	7640159887478
541400036	MF + Degassing Sealed Cover	L1B	B13	10.80	20x4	80	207	175	175	7640159887485
545412040	MF + Degassing Sealed Cover	L1	B13	11.50	20x4	80	207	175	190	7640159887492
545154039	MF + Degassing Sealed Cover	L1	B13	11.50	20x4	80	207	175	190	7640159887720
544402044	MF + Degassing Sealed Cover	L1B	B13	11.10	20x4	80	207	175	175	7640159887508
545400044	MF + Degassing Sealed Cover	L1	B13	11.80	20x4	80	207	175	190	7640159887515
552401052	MF + Degassing Sealed Cover	L1B	B13	11.50	20x4	80	207	175	175	7640159887522
542400047	MF + Degassing Sealed Cover	L1	B13	12.30	20x4	80	207	175	190	7640159887539
545413040	MF + Degassing Sealed Cover	L1	B13	12.30	20x4	80	207	175	190	7640159887546
553401050	MF + Degassing Sealed Cover	L2B	B13	12.80	18x4	72	242	175	175	7640159887553
560408054	MF + Degassing Sealed Cover	L2	B13	14.00	18x4	72	242	175	190	7640159887560
560409054	MF + Degassing Sealed Cover	L2B	B13	13.20	18x4	72	242	175	175	7640159887577
560113054	MF + Degassing Sealed Cover	L2B	B13	13.20	18x4	72	242	175	175	7640159887584
560408054	MF + Degassing Sealed Cover	L2	B13	14.00	18x4	72	242	175	190	7640159887591
560127054	MF + Degassing Sealed Cover	L2	B13	14.00	18x4	72	242	175	190	7640159887607
563400061	MF + Degassing Sealed Cover	L2	B13	14.60	18x4	72	242	175	190	7640159887614
563401061	MF + Degassing Sealed Cover	L2	B13	14.60	18x4	72	242	175	190	7640159887621
570406064	MF + Degassing Sealed Cover	L3	B13	16.50	16x4	64	278	175	190	7640159887638
570144064	MF + Degassing Sealed Cover	L3B	B13	15.70	16x4	64	278	175	175	7640159887645
570130064	MF + Degassing Sealed Cover	L3B	B13	15.70	16x4	64	278	175	175	7640159887652
570406064	MF + Degassing Sealed Cover	L3	B13	16.50	16x4	64	278	175	190	7640159887669
570406064	MF + Degassing Sealed Cover	L3	B13	16.50	16x4	64	278	175	190	7640159887775
574012068	MF + Degassing Sealed Cover	L3	B13	17.00	16x4	64	278	175	190	7640159887676
572406068	MF + Degassing Sealed Cover	L3B	B13	16.20	16x4	64	278	175	175	7640159887683
574012068	MF + Degassing Sealed Cover	L3	B13	17.00	16x4	64	278	175	190	7640159887690
574013068	MF + Degassing Sealed Cover	L3	B13	17.00	16x4	64	278	175	190	7640159887706
577400078	MF + Degassing Sealed Cover	L3	B13	17.30	16x4	64	278	175	190	7640159887713
574402075	MF + Degassing Sealed Cover	L3B	B13	16.50	16x4	64	278	175	175	7640159887720
585200080	MF + Degassing Sealed Cover	L4B	B13	19.10	14x4	56	310	175	175	7640159887737
588403074	MF + Degassing Sealed Cover	L5B	B13	20.10	12x4	48	354	175	175	7640159887744
590122072	MF + Degassing Sealed Cover	L5	B13	21.70	12x4	48	354	175	190	7640159887751
588540080	MF + Degassing Sealed Cover	L4	B13	20.40	14x4	56	310	175	190	7640159887768
588403074	MF + Degassing Sealed Cover	L5B	B13	21.20	12x4	48	354	175	175	7640159887775
600402083	MF + Degassing Sealed Cover	L5	B13	22.80	12x4	48	354	175	190	7640159887782
610402092	MF + Degassing Sealed Cover	L6	B13	24.70	12x3	36	392	175	190	7640159887799

Ah	DIN JIS	Kyoto Japan Battery Code	Polarity (Viewed from Front) - +	Magic Eye	Capacity C20	C.C.A.	Tester C.C.A	Voltage	Classification
					Ah	(A/EN)	(A/EN)	Volts	

Kyoto Japan JIS Asian Series Car Batteries - Extra Charge +35% Starter Power

Optimal Maintenance, Wet-Charged, Sealed, Expanded alloy grids technology with Pb/Ca and low Sb cast Pb/Sb grids with centralised degassing cover, with Magic Eye, ready to use.



35	JIS	KJB-035-B20-JIS	+ on the Right	- +	Magic Eye	35	310	-	12	38B20R
	JIS	KJB-035-B20-JIS(S)	+ on the Right	- +	Magic Eye	35	310	-	12	38B20R(S)
	JIS	KJB-035-B20-JIS(L)	+ on the Left	+ -	Magic Eye	35	310	-	12	38B20L
	JIS	KJB-035-B20-JIS(LS)	+ on the Left	+ -	Magic Eye	35	310	-	12	38B20(LS)
40	JIS	KJB-040-B20-JIS	+ on the Right	- +	Magic Eye	40	330	-	12	42B19R
	JIS	KJB-040-B20-JIS(S)	+ on the Right	- +	Magic Eye	40	330	-	12	42B19R(S)
	JIS	KJB-040-B20-JIS(L)	+ on the Left	+ -	Magic Eye	40	330	-	12	42B19L
	JIS	KJB-040-B20-JIS(LS)	+ on the Left	+ -	Magic Eye	40	330	-	12	42B19(LS)
	JIS	KJB-040-B21-JIS(S)	+ on the Right	- +	Magic Eye	40	330	-	12	42B19R(S)
45	JIS	KJB-045-B24-JIS	+ on the Right	- +	Magic Eye	45	360	-	12	55B24R
	JIS	KJB-045-B24-JIS(S)	+ on the Right	- +	Magic Eye	45	360	-	12	55B24R(S)
	JIS	KJB-045-B24-JIS(L)	+ on the Left	+ -	Magic Eye	45	360	-	12	55B24L
	JIS	KJB-045-B24-JIS(LS)	+ on the Left	+ -	Magic Eye	45	360	-	12	55B24(LS)
50	JIS	KJB-050-B24-JIS	+ on the Right	- +	Magic Eye	50	380	-	12	55B24L
	JIS	KJB-050-B24-JIS(S)	+ on the Right	- +	Magic Eye	50	380	-	12	55B24(LS)
55	JIS	KJB-055-D23-JIS	+ on the Right	- +	Magic Eye	55	450	-	12	55D23R
	JIS	KJB-055-D23-JIS(L)	+ on the Left	+ -	Magic Eye	55	450	-	12	55D23L
60	JIS	KJB-060-D26-JIS	+ on the Right	- +	Magic Eye	60	500	-	12	48D26R
	JIS	KJB-060-D26-JIS(L)	+ on the Left	+ -	Magic Eye	60	500	-	12	48D26L
62	JIS	KJB-062-D23-JIS	+ on the Right	- +	Magic Eye	62	520	-	12	55D23R
	JIS	KJB-062-D23-JIS(L)	+ on the Left	+ -	Magic Eye	62	520	-	12	55D23L
65	JIS	KJB-065-D23-JIS	+ on the Right	- +	Magic Eye	65	560	-	12	90D23R
	JIS	KJB-065-D23-JIS(L)	+ on the Left	+ -	Magic Eye	65	560	-	12	90D23L
	JIS	KJB-065-D26-JIS	+ on the Right	- +	Magic Eye	65	600	-	12	75D26R
	JIS	KJB-065-D26-JIS(L)	+ on the Left	+ -	Magic Eye	65	600	-	12	75D26L
70	JIS	KJB-070-D26-JIS	+ on the Right	- +	Magic Eye	70	540	-	12	80D26R
70	JIS	KJB-070-D26-JIS(L)	+ on the Left	+ -	Magic Eye	70	540	-	12	80D26L
75	JIS	KJB-075-D26-JIS	+ on the Right	- +	Magic Eye	75	620	-	12	100D26R
	JIS	KJB-075-D26-JIS(L)	+ on the Left	+ -	Magic Eye	75	620	-	12	100D26L
80	JIS	KJB-80-D31-JIS	+ on the Right	- +	Magic Eye	80	650	-	12	95D31R
	JIS	KJB-80-D31-JIS(L)	+ on the Left		Magic Eye	80	650	-	12	95D31L
90	JIS	KJB-90-D31-JIS	+ on the Right	- +	Magic Eye	90	700	-	12	95D31R
	JIS	KJB-90-D31-JIS(L)	+ on the Left		Magic Eye	90	700	-	12	95D31L
100	JIS	KJB-100-D31-JIS	+ on the Right	- +	Magic Eye	100	800	-	12	105D31R
	JIS	KJB-100-D31-JIS(L)	+ on the Left	+ -	Magic Eye	100	800	-	12	105D31L

ETN	Battery Construction	Box	Hold Down	Weight	Quantity per Pallet	Dimensions mm			Kyoto Japan EAN Bar Codes
				Kgs		Length	Width	Height	



540126033	MF + Degassing Sealed Cover	N540	B0	10.60	24x3	72	187	127	225	7640159887805
540126033	MF + Degassing Sealed Cover	N540	B0	10.60	24x3	72	187	127	225	7640159888505
540127033	MF + Degassing Sealed Cover	N540	B0	10.60	24x3	72	187	127	225	7640159887812
540127033	MF + Degassing Sealed Cover	N540	B0	10.60	24x3	72	187	127	225	7640159888444
540126033	MF + Degassing Sealed Cover	N540	B0	10.80	24x3	72	187	127	225	7640159887829
540126033	MF + Degassing Sealed Cover	N540	B0	10.80	24x3	72	187	127	225	7640159888451
540127033	MF + Degassing Sealed Cover	N540	B0	10.80	24x3	72	187	127	225	7640159887836
540127033	MF + Degassing Sealed Cover	N540	B0	10.80	24x3	72	187	127	225	7640159888468
540125033	MF + Degassing Sealed Cover	N540	B1	10.80	24x3	72	187	127	225	7640159887843
545113036	MF + Degassing Sealed Cover	N560	B0	13.00	27x3	81	238	129	227	7640159888598
545113036	MF + Degassing Sealed Cover	N560	B0	13.00	27x3	81	238	129	227	7640159888482
545155036	MF + Degassing Sealed Cover	N560	B0	13.00	27x3	81	238	129	227	7640159887850
545157036	MF + Degassing Sealed Cover	N560	B0	13.00	27x3	81	238	129	227	7640159887867
550155035	MF + Degassing Sealed Cover	N560	B0	13.00	27x3	81	238	129	227	7640249192925
550157038	MF + Degassing Sealed Cover	N560	B0	13.00	27x3	81	238	129	227	7640249192932
560410054	MF + Degassing Sealed Cover	D23	B0	15.50	20x3	60	232	173	225	7640159887874
560411054	MF + Degassing Sealed Cover	D23	B0	15.50	20x3	60	232	173	225	7640159887881
570412063	MF + Degassing Sealed Cover	D26	B1	15.80	16x3	48	261	175	220	7640159887898
570413063	MF + Degassing Sealed Cover	D26	B1	15.80	16x3	48	261	175	220	7640159887904
560410054	MF + Degassing Sealed Cover	D23	B0	16.00	20x3	60	232	173	225	7640159887911
560411054	MF + Degassing Sealed Cover	D23	B0	16.00	20x3	60	232	173	225	7640159887928
565033056	MF + Degassing Sealed Cover	D23	B0	16.50	20x3	60	232	173	225	7640159887935
565034056	MF + Degassing Sealed Cover	D23	B0	16.50	20x3	60	232	173	225	7640159887942
565131060	MF + Degassing Sealed Cover	D26	B1	17.50	16x3	48	261	175	220	7640159887959
565132060	MF + Degassing Sealed Cover	D26	B1	17.50	16x3	48	261	175	220	7640159887966
570412063	MF + Degassing Sealed Cover	D26	B1	18.30	16x3	48	261	175	220	7640159887973
570413063	MF + Degassing Sealed Cover	D26	B1	18.30	16x3	48	261	175	220	7640159887980
575109062	MF + Degassing Sealed Cover	D26	B1	19.80	16x3	48	261	175	220	7640159887997
575110062	MF + Degassing Sealed Cover	D26	B1	19.80	16x3	48	261	175	220	7640159888000
585021067	MF + Degassing Sealed Cover	D31	B0	21.50	14x3	42	306	173	225	7640159888017
585022067	MF + Degassing Sealed Cover	D31	B0	21.50	14x3	42	306	173	225	7640159888024
590021069	MF + Degassing Sealed Cover	D31	B0	22.50	14x3	42	306	173	225	7640249192949
590022069	MF + Degassing Sealed Cover	D31	B0	22.50	14x3	42	306	173	225	7640249192956
595404083	MF + Degassing Sealed Cover	D31	B0	23.50	14x3	42	306	173	225	7640159888031
595405083	MF + Degassing Sealed Cover	D31	B0	23.50	14x3	42	306	173	225	7640159888048

Ah	DIN JIS	Kyoto Japan Battery Code	Polarity (Viewed from Front)	Magic Eye	Capacity C20	C.C.A.	Tester C.C.A	Voltage	Classification
					Ah	(A/EN)	(A/EN)	Volts	

Kyoto Japan Heavy Duty Series Truck Batteries - Ultra Charge +35% Power

Top-UP & Maintenance-Free, Wet-Charged, Cast Grids Technology with Pb/Sb, Heavy Duty, ready to use.



100	DIN	KJB-100A-HDT	+ on the Right	- +	Heavy Duty	100	800	-	12	EN50342
	DIN	KJB-100B-HDT	+ on the Right	- +	Heavy Duty	100	800	-	12	EN50342
	DIN	KJB-100B-HDT(L)	+ on the Left	+ -	Heavy Duty	100	800	-	12	EN50342
	DIN	KJB-100C-HDT	+ on the Right	- +	Heavy Duty	100	900	-	12	EN50342
105	DIN	KJB-105A-HDT	+ on the Right	- +	Heavy Duty	105	750	-	12	EN50342
	DIN	KJB-105C-HDT	+ on the Right	- +	Heavy Duty	105	750	-	12	EN50342
	DIN	KJB-105B-HDT	+ on the Right	- +	Heavy Duty	105	770	-	12	EN50342
	DIN	KJB-105B-HDT(L)	+ on the Left	+ -	Heavy Duty	105	770	-	12	EN50342
110	DIN	KJB-110A-HDT	+ on the Right	- +	Heavy Duty	110	850	-	12	EN50342
	DIN	KJB-110A-HDT(L)	+ on the Left	+ -	Heavy Duty	110	850	-	12	EN50342
	DIN	KJB-110B-HDT	+ on the Right	- +	Heavy Duty	110	850	-	12	EN50342
120	DIN	KJB-120-HDT	+ on the Right	- +	Heavy Duty	120	900	-	12	EN50342
	120	KJB-120-HDT (L)	+ on the Left	+ -	Heavy Duty	120	900	-	12	EN50342
125	DIN	KJB-125A-HDT	+ on the Right	- +	Heavy Duty	125	960	-	12	EN50342
	DIN	KJB-125A-HDT(L)	+ on the Left	+ -	Heavy Duty	125	960	-	12	EN50342
130	DIN	KJB-130A-HDT	+ on the Right	- +	Heavy Duty	130	920	-	12	EN50342
	DIN	KJB-130A-HDT(L)	+ on the Left	+ -	Heavy Duty	130	920	-	12	EN50342
135	DIN	KJB-135A-HDT	+ on the Right	- +	Heavy Duty	135	950	-	12	EN50342
140	DIN	KJB-140A-HDT(L)	+ on the Left	+ -	Heavy Duty	140	950	-	12	EN50342
	DIN	KJB-140B-HDT	+ on the Right	- +	Heavy Duty	140	1120	-	12	EN50342
	DIN	KJB-140C-HDT(L)	+ on the Left	+ -	Heavy Duty	140	980	-	12	EN50342
	DIN	KJB-140D-HDT(L)	+ on the Left	+ -	Heavy Duty	140	1020	-	12	EN50342
	DIN	KJB-140E-HDT	+ on the Right	- +	Heavy Duty	140	1080	-	12	EN50342
	DIN	KJB-140E-HDT(L)	+ on the Left	+ -	Heavy Duty	140	1080	-	12	EN50342
150	DIN	KJB-150A-HDT	+ on the Right	- +	Heavy Duty	150	1000	-	12	EN50342
	DIN	KJB-150A-HDT(L)	+ on the Left	+ -	Heavy Duty	150	1000	-	12	EN50342
160	DIN	KJB-160A-HDT(L)	+ on the Left	+ -	Heavy Duty	160	1020	-	12	EN50342
170	DIN	KJB-170A-HDT	+ on the Right	- +	Heavy Duty	170	1140	-	12	EN50342
	DIN	KJB-170A-HDT(L)	+ on the Left	+ -	Heavy Duty	170	1140	-	12	EN50342
180	DIN	KJB-180A-HDT(L)	+ on the Left	+ -	Heavy Duty	180	1150	-	12	EN50342
	DIN	KJB-180B-HDT(L)	+ on the Left	+ -	Heavy Duty	180	1140	-	12	EN50342
185	DIN	KJB-185A-HDT	+ on the Right	- +	Heavy Duty	185	1200	-	12	EN50342
	DIN	KJB-185A-HDT(L)	+ on the Left	+ -	Heavy Duty	185	1200	-	12	EN50342
200	DIN	KJB-200A-HDT(L)	+ on the Left	+ -	Heavy Duty	200	1200	-	12	EN50342
210	DIN	KJB-210A-HDT(L)	+ on the Left	+ -	Heavy Duty	210	1250	-	12	EN50342
220	DIN	KJB-220A-HDT(L)	+ on the Left	+ -	Heavy Duty	220	1250	-	12	EN50342
	DIN	KJB-220B-HDT	+ on the Right	- +	Heavy Duty	220	1400	-	12	EN50342
	DIN	KJB-220B-HDT(L)	+ on the Left	+ -	Heavy Duty	220	1400	-	12	EN50342
225	DIN	KJB-225A-HDT(L)	+ on the Left	+ -	Heavy Duty	225	1275	-	12	EN50342
240	DIN	KJB-240A-HDT(L)	+ on the Left	+ -	Heavy Duty	240	1400	-	12	EN50342

Kyoto Japan EFB Truck Series

EFB Technology with Cast Grids, Ca/Ca Alloy, Sealed Maintenance-Free, Wet-Charged, Hermetic lid with centralised degassing, Heavy Duty, ready to use.



140	DIN	KJB-140A-EFB(L)	+ on the Left	+ -	Heavy Duty	140	950	-	12	EN50342
185	DIN	KJB-185B-EFB(L)	+ on the Left	+ -	Heavy Duty	185	1250	-	12	EN50342
230	DIN	KJB-230C-EFB(L)	+ on the Left	+ -	Heavy Duty	230	1350	-	12	EN50342

ETN	Battery Construction	Box	Hold Down	Weight	Quantity per Pallet	Dimensions mm			Kyoto Japan EAN Bar Codes
				Kgs		Length	Width	Height	

600123072	Top-Up Removable Caps	90MB	B1	23.50	14x3	42	310	175	205	7640159888055
600125080	Top-Up Removable Caps	GR28	B13	23.50	14x3	42	323	175	215	7640159888062
600126080	Top-Up Removable Caps	GR28	B13	23.50	14x3	42	323	175	215	7640159888079
600402083	Top-Up Removable Caps	L5	B13	23.60	14x3	42	354	175	190	7640159888086
610047068	Top-Up Removable Caps	98 Comp	B0	26.50	12x2	24	343	175	232	7640159888093
610047068	Top-Up Removable Caps	98 Comp	B1	26.50	12x2	24	343	175	232	7640159888055
600047060	Top-Up Removable Caps	AT100	B3	28.00	9x3	27	415	175	215	7640159888109
600035060	Top-Up Removable Caps	AT100	B3	28.00	9x3	27	415	175	215	7640159888116
610047068	Top-Up Removable Caps	98 Comp	B0	29.00	12x2	24	343	175	232	7640159888123
610404068	Top-Up Removable Caps	98 Comp	B0	29.00	12x2	24	343	175	232	7640159888130
610048068	Top-Up Removable Caps	98 Comp	B1	29.00	12x2	24	343	175	232	7640159888147
620404085	Top-Up Removable Caps	98 Comp	B0	29.25	12x2	24	343	175	232	7640249194776
620404068	Top-Up Removable Caps	98 Comp	B0	29.25	12x2	24	343	175	232	7640249199085
620109076	Top-Up Removable Caps	Mac 120	B3	35.00	8x3	24	508	175	228	7640159888154
620045068	Top-Up Removable Caps	A	B0	35.00	8x3	24	513	190	223	7640159888161
625012072	Top-Up Removable Caps	127 Comp	B0	34.00	12x2	24	343	175	283	7640159888178
625014072	Top-Up Removable Caps	127 Comp	B0	34.00	12x2	24	343	175	283	7640159888185
635042068	Top-Up Removable Caps	-	B0	37.50	8x3	24	360	253	240	7640159888192
640400080	Sealed	Flat Lid	B0	35.60	8x3	24	513	190	223	7640159888208
643107090	Top-Up Removable Caps	Mat 132	B1	34.50	8x3	24	508	175	205	7640159888215
640103080	Top-Up Removable Caps	A	B0	35.60	8x3	24	513	190	223	7640159888222
635052100	Top-Up Removable Caps	Mac 110D	B3	35.50	8x3	24	514	175	210	7640159888239
635053100	Top-Up Removable Caps	Mac 110D	B3	37.00	8x3	24	514	175	210	7640159888246
635052100	Top-Up Removable Caps	Mac 110D	B3	37.00	8x3	24	514	175	210	7640159888253
655104090	Top-Up Removable Caps	B	B3	42.50	7x3	21	513	223	223	7640159888260
655104090	Top-Up Removable Caps	B	B0	42.50	7x3	21	513	223	223	7640159888277
655013090	Top-Up Removable Caps	B	B0	41.50	7x3	21	513	223	223	7640159888284
655104090	Top-Up Removable Caps	B	B3	42.50	7x3	21	513	223	223	7640159888291
680033110	Top-Up Removable Caps	B	B0	42.50	7x3	21	513	223	223	7640159888307
670103100	Sealed	Flat Lid	B0	43.00	7x3	21	513	223	223	7640159888314
680108100	Top-Up Removable Caps	B	B0	43.00	7x3	21	513	223	223	7640159888321
680033100	Top-Up Removable Caps	B	B3	45.50	7x3	21	513	223	223	7640159888338
680108100	Top-Up Removable Caps	B	B0	45.50	7x3	21	513	223	223	7640159888345
680108100	Top-Up Removable Caps	B	B0	46.00	7x3	21	513	223	223	7640159888352
700038105	Top-Up Removable Caps	C	B0	56.50	6x3	18	518	273	242	7640159888369
720018115	Sealed	Flat Lid	B0	56.50	6x3	18	518	273	242	7640159888376
720019140	Top-Up Removable Caps	C	B0	58.50	6x3	18	518	273	242	7640159888383
720018140	Top-Up Removable Caps	C	B0	58.50	6x3	18	518	273	242	7640159888390
720018127	Sealed	Flat Lid	B0	56.75	6x3	18	518	273	242	7640159888505
725103115	Top-Up Removable Caps	C	B0	59.00	6x3	18	518	273	242	7640159888833

645000095	Sealed	Flat Lid	B0	37.40	8x3	24	513	190	223	7640249191614
685500125	Sealed	Flat Lid	B0	46.00	7x3	21	513	224	223	7640249191621
730500135	Sealed	Flat Lid	B0	60.00	6x3	18	518	242	276	7640249191638

Ah	DIN JIS	Kyoto Japan Battery Code	Polarity (Viewed from Front)		Magic Eye	Capacity C20	C.C.A.	Tester C.C.A	Voltage	Classification
			-	+		Ah	(A/EN)	(A/EN)	Volts	

Kyoto Japan Garden Series

Dry-charged & Wet-Charged ready to use.



24	DIN	KJB-024-230A-GAR (DC)	+ on the Right	- +	Dry-Charged	24	230	-	12	52415
30	DIN	KJB-030-330A-GAR (DC)	+ on the Right	- +	Dry-Charged	30	310	-	12	53030
	DIN	KJB-030-330A-GAR (DC) (L)	+ on the Left	+ -	Dry-Charged	30	310	-	12	53034
32	DIN	KJB-032-330A-GAR (DC)	+ on the Right	- +	Dry-Charged	32	330	-	12	53211
24	DIN	KJB-024-230A-GAR (WC)	+ on the Right	- +	Wet Charged	24	230	-	12	52415
26	DIN	KJB-026-200A-GAR (WC)	+ on the Right	- +	Wet Charged	26	200	-	12	52413
	DIN	KJB-026-200A-GAR (WC) (L)	+ on the Left	+ -	Wet Charged	26	200	-	12	52414
	DIN	KJB-026-240A-GAR (WC)	+ on the Right	- +	Wet Charged	26	240	-	12	52413
	DIN	KJB-026-240A-GAR (WC) (L)	+ on the Left	+ -	Wet Charged	26	240	-	12	52414
28	DIN	KJB-028-270A-GAR (WC)	+ on the Right	- +	Wet Charged	28	270	-	12	52413
	DIN	KJB-028-270A-GAR (WC) (L)	+ on the Left	+ -	Wet Charged	28	270	-	12	52414
30	DIN	KJB-030-330A-GAR (WC)	+ on the Right	- +	Wet Charged	30	310	-	12	53030
	DIN	KJB-030-330A-GAR (WC) (L)	+ on the Left	+ -	Wet Charged	30	310	-	12	53034
32	DIN	KJB-032-330A-GAR (WC)	+ on the Right	- +	Wet Charged	32	330	-	12	53211

Kyoto Japan Marine Series

Cast Grids, Pb/Sb, Wet-Charged, ready to use.



75	DIN	KJB-075-MAR-AGM	+ on the Right	- +	AGM	70	750	750	12	EN50342
100	DIN	KJB-100-MAR-AGM	+ on the Right	- +	AGM	100	850	850	12	EN50342
110	DIN	KJB-110-MAR-AGM	+ on the Right	- +	AGM	122	1200	1200	12	EN50342
75	DIN	KJB-075-MAR	+ on the Right	- +	FLOODED	80	690	730	12	EN50342
100	DIN	KJB-100-MAR	+ on the Right	- +	FLOODED	100	850	900	12	EN50342
110	DIN	KJB-110-MAR	+ on the Right	- +	FLOODED	120	900	900	12	EN50342
140	DIN	KJB-140-MAR	+ on the Left	+ -	Heavy Duty	140	950	-	12	EN50342
185	DIN	KJB-185-MAR	+ on the Left	+ -	Heavy Duty	185	1250	-	12	EN50342
230	DIN	KJB-230-MAR	+ on the Left	+ -	Heavy Duty	230	1350	-	12	EN50342

Kyoto Japan Lift-Truck Series

Cast Grids, Pb/Sb, Wet-Charged, ready to use.



105	DIN	KJB-105-LFT	+ on the Right	- +	-	105	96	89	12	EN50342
115	DIN	KJB-115-LFT	+ on the Right	- +	-	115	105	97	12	EN50342
140	DIN	KJB-140-LFT(L)	+ on the Left	+ -	-	140	129	119	12	EN50342
185	DIN	KJB-185-LFT(L)	+ on the Left	+ -	-	185	170	157	12	EN50342
230	DIN	KJB-230-LFT(L)	+ on the Left	+ -	-	230	207	191	12	EN50342
240	DIN	KJB-240-LFT	+ on the Left or Right			240	220	200	6	EN50342

Kyoto Japan NATO Series

Cast Grids, Pb/Sb/Se, Dry-Charged



100	DIN	KJB-100-NATO	+ on the Right	- +	-	100	850	-	12	EN50342
125	DIN	KJB-125-NATO	+ on the Right	- +	-	125	1000	-	12	EN50342

ETN	Battery Construction	Box	Hold Down	Weight	Quantity per Pallet		Dimensions mm			Kyoto Japan EAN Bar Codes
				Kgs			Length	Width	Height	



524013018	Terminal 4	28NU	80	5.50	36x4	144	187	128	167	7640249192918
530030030	Terminal 4	28NU	80	6.50	36x4	144	187	128	167	7640159888451
530034024	Terminal 4	28NU	80	6.50	36x4	144	187	128	167	7640249192888
532011024	Terminal 4	32NU	80	6.80	24x4	96	233	131	167	7640249192895
523013020	Terminal 4	28NU	80	7.50	36x4	144	187	128	167	7640249192901
524013018	Terminal 4	28NU	80	7.60	30x4	120	179	120	171	7640249192819
524101020	Terminal 4	28NU	80	7.60	30x4	120	179	120	171	7640249192826
524013018	Terminal 4	28NU	80	7.60	30x4	120	179	120	171	7640159888499
524101020	Terminal 4	28NU	80	7.60	30x4	120	179	120	171	7640159888468
524013018	Terminal 4	28NU	80	7.90	30x4	120	179	120	171	7640249192833
524101020	Terminal 4	28NU	80	7.90	30x4	120	179	120	171	7640249192840
530030030	Terminal 4	28NU	80	8.50	36x4	144	187	128	167	7640249192857
530034024	Terminal 4	28NU	80	8.50	36x4	144	187	128	167	7640249192864
532011024	Terminal 4	32NU	80	9.80	24x4	96	233	131	167	7640249192871

570901076	Hybrid AGM Technology	L3	B13	20.30	16x3	48	275	175	190	7640249195070
595901085	Hybrid AGM Technology	L5	B13	26.40	12x3	36	350	175	190	7640249195087
622901120	Hybrid AGM Technology	GR31	80	32.60	12x2	24	350	175	230	7640249195094
577400078	Hermetic Duplex Lid & Sealed	L3	B13	17.80	16x4	64	275	175	190	7640249195100
600402083	Hermetic Duplex Lid & Sealed	L5	B13	22.80	12x4	48	350	175	190	7640249195117
610404068	Top Removable Cap	98 Comp	80	29.00	12x2	24	350	175	230	7640249195124
640500095	Sealed	Flat Lid	80	37.40	8x3	24	513	190	223	7640249195131
685500125	Sealed	Flat Lid	80	46.00	7x3	21	513	224	223	7640249195148
730500135	Sealed	Flat Lid	80	60.00	6x3	18	518	242	276	7640249195155

-	Low Maintenance	GR28	B1	28.00	12x3	36	323	175	215	7640249195216
-	Low Maintenance	98Comp	80	31.50	12x2	24	343	175	232	7640249195223
-	Low Maintenance	A/ Flat	80	37.50	8x3	24	513	190	223	7640249195230
-	Low Maintenance	B/ Flat	80	46.00	7x3	21	513	223	223	7640249195247
-	Low Maintenance	C/ Flat	80	60.00	6x3	18	518	273	242	7640249195254
-	Low Maintenance	Modular	80	32.00	16x2	32	244	190	275	7640249195261

625023000	NATO	NATO E1110	80	21.00	8x4	32	280	267	231	7640249195278
625023000	NATO	NATO E1110	80	24.00	8x4	32	280	267	231	7640249195179



International Warranty

Thank you for purchasing our product. Flawless functioning of the battery is guaranteed for from the date of purchase. The warranty is valid only when the user has followed the instructions listed below and properly handled the product during ownership:

- In case of ignition problems, users are advised to visit an authorised Auto Electrical Service Agent, where the electrical system will be checked and the battery recharged and checked, if necessary.
- When claiming the warranty, the battery should be returned to the nearest authorised Service Agent. The battery must not be mechanically damaged, and no factory labels can be damaged. The battery should be returned together with proof of purchase and duly completed Warranty Certificate, since the Warranty cannot be claimed without these documents.
- In the case of proven manufacturer's fault within the Warranty period the battery repair or replacement costs shall be borne by the Authorised Importer. In the case of an unjustified Warranty claim (i.e. discharged battery), the costs shall be borne by the purchaser.
- The Manufacturer or Authorised Importer will not be responsible for the battery in the following circumstances:
 - * damage caused by defective or damaged electrical system in the purchaser's vehicle,
 - * the battery is mechanically damaged,
 - * the battery has not been installed, maintained, charged or used according to the instructions,
 - * the battery has been used for a purposes it was not designed for,
 - * the battery is completely worn-out and come to the end of its normal life.
- The Manufacturer provides services covering maintenance and spare parts for the average 5-year service life of the product.

Instructions for Use of the Starter Battery

Battery Maintenance in the Vehicle:

The battery is designed for starting internal combustion engines, the battery must be clean and dry at all times. It is especially important to keep clean the poles/posts/terminals. The battery must be correctly connected (positive connector to the positive pole, negative connector to the negative pole). Striking the connecting couplings may cause irreparable damage due to potential mechanical disconnection of the electrical circuit in the battery, as well as an explosion. To ensure smooth functioning of the battery, a regular check at qualified workshops or service agent is recommended each year. At the workshops or service agent correct functioning of the vehicle's electrical system will be checked and the level of electrolyte in the battery will be inspected (for the types of batteries that allow that). Appropriate voltage for charging the vehicle's electrical system is between 14.2 V and 14.8 V. If the level of electrolyte in the cells is below the marking, only distilled (demineralised) water may be added. Discharge batteries must be charged up immediately, otherwise irreparable damage may occur. Electrolyte of a discharged battery freezes at 0°C. Frozen electrolyte permanently damages the battery and can mechanically damage the battery casing.

Installation of the Battery into the Vehicle

It is recommended that the installation is performed in accordance with the vehicle manufacturer's instructions and by an expert, especially in the case of coded electric consumers in the vehicle. Special care should be taken to avoid contact between the poles and any tools used during installation. When removing the battery, the negative pole (-) should be disconnected first, followed by the positive pole (+). Before installing the battery, all electric consumers should be turned off and the packing material removed from the new battery. The battery should first be mechanically fixed into the vehicle and then correctly connected. The positive pole (+) should be connected first, and then the negative pole (-). Short circuit may cause permanent battery damage, battery explosion, and injury by sulphuric acid or battery particles. Make sure the connectors are tightly fastened, the positive pole protection is in place, and, if necessary, the battery compartment cover is in place. The place where the battery is being installed must be ventilated.

Charging the Battery outside of the Vehicle

The battery may be charged with direct current only. With the battery charger unplugged, connect the battery. Connect the positive pole (+) of the battery to the positive cable of the charger, and the negative pole (-) of the battery to the negative cable of the charger. When the charging is completed, first turn off the charger, and then disconnect the battery. The battery must be charged in a well ventilated room. Charge the battery with an appropriate charger. The maximum initial charge current must be 1/10 of the battery's capacity (for example, for a 60 Ah battery, the initial charge current is 6A). During the charging, the battery temperature must not rise above 55°C. If this maximum temperature is reached, charging must be stopped. The battery charging is complete, when the density of electrolyte and the charging voltage do not increase within a 2-hour period.

Storage and Transportation

Charged batteries should be stored in a cool and dry place. If the battery remains in the vehicle, disconnect the negative pole (-). If the voltage drops below 12.2 V, the battery must be recharged. At this voltage, the electrolyte does not freeze if the temperature is above -15°C. The battery must be stored or transported in an upright position and secured to prevent toppling over and leakage of electrolyte. Batteries must always be stored in well ventilated areas.

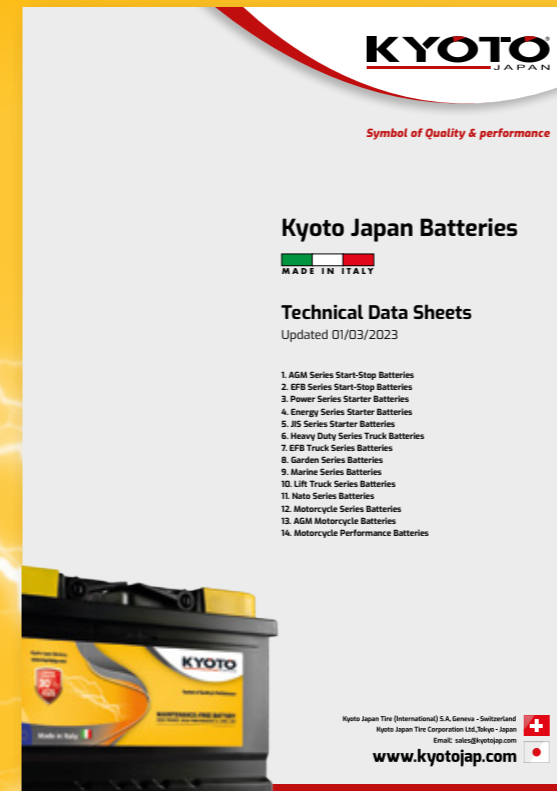
Safety Instructions

- * Due to explosive gas batteries must not be brought into contact with sparks, open fire, or any smouldering elements.
- * The electrolyte in the battery is diluted sulphuric acid. Should the acid get have contact with eyes, immediately rinse with plenty of water for a few minutes and seek medical advice. If the acid is in contact with skin or protective clothing, undress immediately and rinse the affected spot with water for at least 15 minutes. Seek medical advice if necessary.
- * The battery must always be placed in an upright position to prevent electrolyte leakage.
- * During use, storage or charging the battery must be placed in a well ventilated area. Avoid direct exposure of the battery to sunlight.
- * Batteries are heavy, to aid manual handling always use the built-in handles for transportation.
- * Metallic parts can cause short circuits when placed between the poles, which can cause permanent battery damage, explosion or injury by sulphuric acid or battery particles.
- * Children are not allowed to handle the batteries.

Kyoto Japan Official Documentation



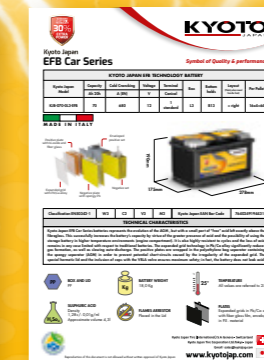
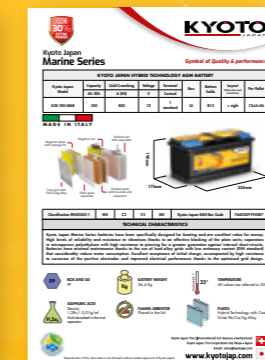
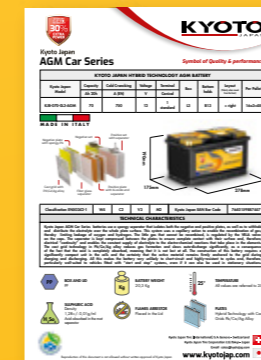
Kyoto Japan offers a complete selection of detailed Technical Data Sheets covering the full Catalogue of products. We also provides International Warranty and of course Safety Products Sheets for customers and final users.



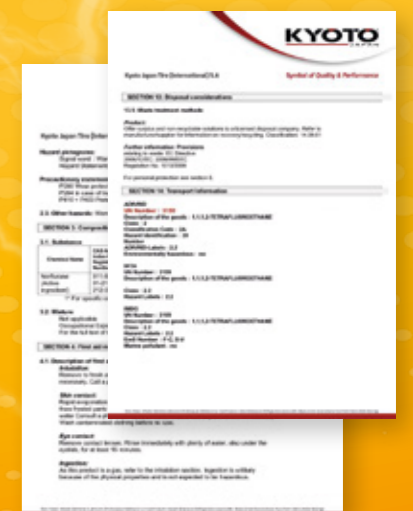
International Warranty



Technical Data Sheets



Product Safety Sheets



PowerTec Series of Batteries are Manufactured & Marketed by Kyoto Japan Group

Kyoto Japan in the World

Kyoto Japan Tire Group has presence through a network of Group Companies, and/or Representations & Official Distributorships in selected international markets to provide support and After-Sales-Service

Symbol of Quality & performance



- Kyoto Japan Headquarters
- Kyoto Japan Companies
- Kyoto Japan Distributors



Kyoto Japan Official Distributor:

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