

Energy, power, reliability the triad that leads the way!







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POWER TECHNOLOGY

Energy, power, reliability...the triad that leads the way

The need to reduce the polluting emissions in order to make the use of vehicles more sustainable is leading factories to increasingly limit the consumption of fuels and C02 emissions through Start-Stop systems and regenerative braking. Thus, micro hybrid cars, which currently represent the entire registered car market, were born.

New generation cars are equipped with several electronic devices to manage the active and safe drive, which in some cases replace the driver in the "choice" of the drive in case of specific hazardous conditions.

Accumulators are not all the same and choosing the right battery for the right need is one of the best guarantees for a pleasant and safe driving.

FAAM has developed a new line of Power Technology products, both in "Flooded" and "AGM" version, in order to satisfy the needs of the new vehicles and of those in circulation. The most innovative technological solution is therefore ensured, both for the traditional applications and for extreme cyclical applications, with a strong charge acceptance and resistance to high temperatures. The mutual strengths of the new four types of batteries, **CYCLES**, **SAFE**, **START** e **BLACK**, are the reliability and the constant power cycling resistance through high electrical performances in total safety of use.



CYCLES

The latest generation cars equipped with Start-Stop system need high-performing batteries in terms of electric features, reliability and high cycling resistance.

CYCLES range satisfies the needs of new cars through a new designing of inner electrodes concerning alloys, grids, thickness, new elaboration of active materials and special systems of inner separation. Both in FLOODED and AGM version, the batteries of the CYCLES range represent the best solution as regards performance, lifetime, reliability and safety due to their strong starting power, to the high cycling resistance and a strong inclination to charge acceptance.





High Cranking High Endurance Current Cycles







High Charge



High Charge



Maintenance



Extreme



Regenerative







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The SAFE range was created for vehicles of any category. It represents the real answer to the increasing demand of energy and to the need of a highly powerful battery for high starting currents ensuring safety and extreme reliability at the same time.

It was built with lead, calcium and tin alloys with a special recombination cover, centralized degassing and flame-retardant pads. It shows a high cycling resistance and a great charge acceptance and lasting. It is particularly suitable for applications on the latest generation cars.



High Cranking High Endurance Cycles

High Charge Acceptance

High Charge Retention

Maintenance

Extreme Temperatures Regenerative Braking

























The designing of the START range was born from the need to satisfy the demand of a high starting current, great reliability, lack of servicing and high safety. The use of a recombination watertight cover with a centralized degassing system and a special flame retardant pad represents a remarkable benefit for the safety and reliabilty of this battery.



High Cranking High Endurance



High Charge



High Charge



Extreme **Temperatures**



Magic Eye







The cars with the traditional wiring system need a considerable power and reliability for a proper functioning. The BLACK range battery, built with hybrid technology, is the best economic and technical solution for this category of aftermarket need.

High Cranking High Endurance Cycles







High Charge

Acceptance







Maintenance

Free





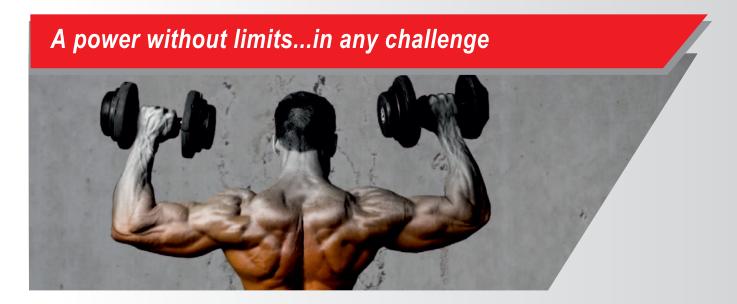
Energy, power, reliability...the triad that leads the way

The new types of commercial vehicles introduced on the market need more and more energy, for their functioning and for that of on-board devices and accessories with which they are equipped as well.

The increasingly extreme usage conditions, the installation on highly vibration areas and the higher need of reducing the costs of use of the vehicles led to the designing and development of new ranges of batteries with innovative mechanical, electric and chemical features.

The new application needs have actually determined the improvement of the product in aspects such as:

- starting power
- disposable energy
- easy recharging
- vibration resistance
- maintenance free
- suitability for the installation on highly vibrating parts such as the rear of truck chassis
- usage in regenerative braking systems
- long lasting
- reliability



The choice of a correct and suitable battery in terms of application is a determining factor to satisfy application needs compared to the past.

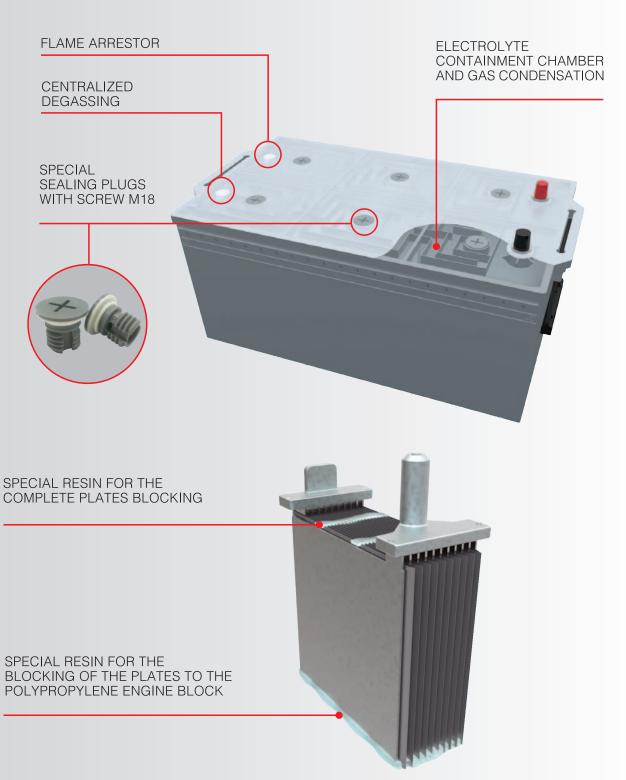
FAAM has designed the new line ENERGY TECHNOLOGY, with the new product range GENIUSPRO GENIUS, SMARTPRO, and SMART, relying on its innovative technological spirit and its over 50-year-old experience in the field. All the ranges completely and professionally satisfy the different application needs coming from the technological development of heavy industrial vehicles, agricultural vehicles, construction and earth-moving machinery.

In such a way FAAM wants to ensure power, higher reliability and greater efficiency thanks to its products, with a longer lasting battery and a lower maintenance total cost.

Energy, power, reliability...the triad that leads the way

FAAM S3 Technology





Energy, power, reliability...the triad that leads the way

GENIUSPRO series batteries were designed to be installed on the latest generation industrial vehicles which need high starting power, performing service energy and high cycling resistance, even in extreme conditions. This product, with his Pb/Ca/Sn plates 2,9 mm thick, represents a hybrid solution between starter and motive power batteries, in order to meet all those requirements and provide one of the highest starting power of the market.

They are particularly appropriate to be installed on vehicles subject to high vibration. They have been designed for such aim with the innovative FAAM S3 - Stop Shock System with the blocking of plates in the upper and lower areas by means of special resins in order to be resistant to extreme installation and usage. They exceed the strictest V3 requirements of the EN50342-1 standard which expect 20 h of vibration at 6g and 30 Hz at a temperature of 25°C.

Such batteries are equipped with an innovative double labyrinth flat cover with containment chambers and gas condensation. Each labyrinth inside the cover is heat-sealed and it allows the funnelling of emissions produced by the battery towards the exit, where there are two anti-explosion flame-arrestors (flame-retardant pads).

Moreover, they are equipped with special electrodes/plates with high thickness in Pb/Ca/Sn alloy and special formulations of active matters, which not only do they require lack of maintenance but they also ensure the efficient resistance to heavier uses, with a considerable improvement of the mechanical and electric features compared to conventional batteries. It is equipped with a special fiberglass separator with newly designed grids. Through the use of special productive processes a considerable improvement in the cycling resistance with deep discharging was obtained, ensuring a notable energy with starting powers that are constant in the course of time even under critical conditions regarding vibrations and tempe-









High Cranking High Endurance





High Charge



Retention



High Electrolyte High Charge

Maintenance Free



High Shock Extreme Resistance Temperatures



Super Heavy Duty



The latest

As GENIUSPRO series, also GENIUS are equipped with the innovative FAAM S3 - Stop Shock System and the innovative double labyrinth flat cover thanks to which they are ideal for the heaviest usages. GENIUS series too is equipped with the special fiberglass separator, which has considerably improved cycling resistance with deep discharging, ensuring a notable energy with starting powers that are constant in the course of time even under critical conditions regarding vibrations and temperature. Moreover, they are equipped with special electrodes/plates with high thickness in Pb/Ca/Sn alloy and special formulations of active matters, which not only do they require lack of maintenance but they also ensure a more efficient resistance to heavier uses, compared to conventional batteries. The GENIUS range is particularly suitable for the intensive use on heavy industrial vehicles and working machinery.





High Cranking High Endurance





High Electrolyte



High Charge

















High Charge









Energy, power, reliability...the triad that leads the way

This powerful, safe and low-maintenance type of battery is also equipped with FAAM S3 - Stop Shock System, with which it passes the homologation tests of the main OEM vehicle manufacturers and the tests required by the EN regulations. Similarly to the GENIUS range, the plates are blocked on the upper and lower part due to the FAAM S3 system, allowing the highest resistance to temperatures and extreme vibrations. It is also equipped with a double labyrinth flat cover with containment chambers and gas condensation and, therefore, characterized by the same safety standards and benefits.

The SMARTPRO is the ideal choice for a heavy application where long-lasting, reliability and electric performances ought not to be a compromise.







High Cranking

High Endurance Cycles

Acceptance

High Charge

High Electrolyte Retention

High Charge Retention

Maintenance Free

High Shock Resistance

Extreme Temperatures **Super Heavy** Duty

The latest Vehicles Generation



















The batteries of SMART series are batteries for Super Heavy Duty use and can be used on conventional vehicles. They are designed with plates (electrodes) with high thickness and strenghtened structure to satisfy the need for high energies and high cyclical resistance with low-maintenance.

They are an excellent compromise among performances, long-lasting and cost, for the use on industrial vehicles.



High Cranking High Endurance Cycles

High Charge Acceptance

High Electrolyte Retention

High Charge Retention

Maintenance Free

High Shock Resistance

Extreme Temperatures

Super Heavy Duty

Safety Plugs























HEAVY PLUS TECHNOLOGY

Energy, power, reliability...the triad that leads the way

The Heavy Plus Technology line was designed for intensive use, when application requires remarkable energy and longlasting with intensive use reliability. It reacts efficiently and effectively to the energetic needs of innovative vehicles (electrical and motor boats, yatches, caravans) equipped with excellent accessories and with electric drive (golf cart, sweepers, renewable energy storage and so on), where the deep discharging is a standard of use. They are made both with flat and tubular plates with different designing details and components. The ranges satisfy the different needs of professional applications.

The range is addressed to nautical applications both for starter for boats and small yachts, starter for deep-sea marine and on board services. It is characterized by high reliability, excellent resistance to the charging and discharging cycles, high autonomy and resistance to marine environments.













High Charge



Maintenance









This range, which was designed with traction technology, is suitable for any type of electric-driven vehicle (machines for industrial cleaning, golf cars, lifting platforms and so on), leisure vehicle (services for caravans and nautical field and toys) and the use for the energy storage from renewable sources. The light traction batteries are designed for the cyclical use in which a high number of charge/discharge cycles is required and they are available both in the AGM version (flat and tubular plate) and GEL.



High Endurance Cycles







































The range is composed of a variety of products, aiming at satisfying the several application needs including scooters or high-powered motorbikes, lawnmowers, quads, snowcats and water motors. In particular, the watertight models are renowned for their excellent reliability in hot climates and their low self-discharging.





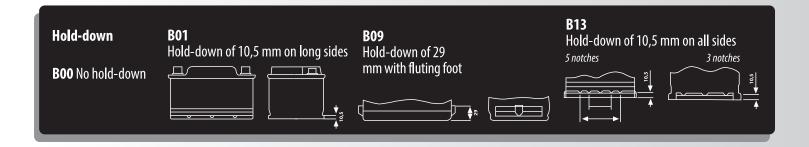
use, diagnostics, features



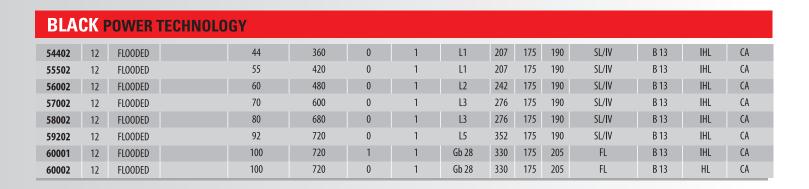
| FAAM | ٧ | TECHNOLOGY | MAINTENANCE | ELECTRIC F | EATURES | LAYOUT | TYPE OF | TYPE OF | DIME | NSIONS | (mm) | LID | HOLD | HANDLES | VERSION |
|---------|------|------------|-------------|----------------------|---------------|----------|-----------|---------|-------------|------------|-------------|----------------|------|---------|---------|
| CODE | | | FREE | Capacity Ah (20h) | CCA A (EN) | POLARITY | TERMINALS | ВОХ | Length L | Width W | Height H | | DOWN | | |
| CYC | LES | POWER | TECHNOL | OGY | START STOP | | | | | | | | | | |
| EFB FLO | ODED |) | | | | | | | | | | | | | |
| 60F22 | 12 | FLOODED | ✓ | 60 | 570 | 0 | 1 | L2 | 242 | 175 | 190 | SL/IV/FA/ME/MF | B 13 | IHL | CA |
| 70F32 | 12 | FLOODED | ✓ | 70 | 650 | 0 | 1 | L3 | 276 | 175 | 190 | SL/IV/FA/ME/MF | B 13 | IHL | CA |
| 80F42 | 12 | FLOODED | ✓ | 80 | 740 | 0 | 1 | L4 | 314 | 175 | 190 | SL/IV/FA/ME/MF | B 13 | IHL | CA |
| 95F52 | 12 | FLOODED | ✓ | 95 | 870 | 0 | 1 | L5 | 352 | 175 | 190 | SL/IV/FA/ME/MF | B 13 | IHL | CA |
| AGM | | | | | | | | | | | | | | | |
| 60A22 | 12 | VRLA-AGM | ✓ | 60 | 680 | 0 | 1 | L2 | 242 | 175 | 190 | SL/IV/FA/ME/MF | B 13 | IHL | CA |
| 70A32 | 12 | VRLA-AGM | ✓ | 70 | 760 | 0 | 1 | L3 | 276 | 175 | 190 | SL/IV/FA/ME/MF | B 13 | IHL | CA |
| 80A42 | 12 | VRLA-AGM | ✓ | 80 | 800 | 0 | 1 | L4 | 314 | 175 | 190 | SL/IV/FA/ME/MF | B 13 | IHL | CA |
| 90A52 | 12 | VRLA-AGM | ✓ | 90 | 900 | 0 | 1 | L5 | 352 | 175 | 190 | SL/IV/FA/ME/MF | B 13 | IHL | CA |
| | | | | | | | | | | | | | | | |

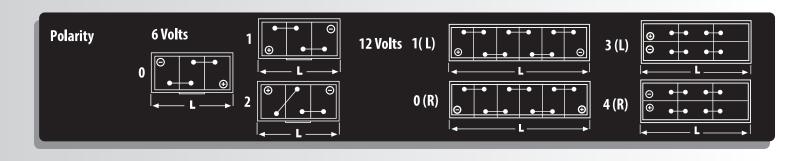
| SAFI | E PO | WER TE | CHNOLOG | Y | | | | | | | | | | | |
|-------|------|---------|----------|----------|-----|---|---|-----|-----|-----|-----|----------------|------|-----|----|
| 43L12 | 12 | FLOODED | ✓ | 43 | 330 | 0 | 1 | L1B | 207 | 175 | 175 | SL/IV/FA/ME/MF | B 13 | IHL | CA |
| 44L12 | 12 | FLOODED | 1 | 44 | 360 | 0 | 1 | L1 | 207 | 175 | 190 | SL/IV/FA/ME/MF | B 13 | IHL | CA |
| 52L12 | 12 | FLOODED | 1 | 52 | 430 | 0 | 1 | L1 | 207 | 175 | 190 | SL/IV/FA/ME/MF | B 13 | IHL | CA |
| 55X12 | 12 | FLOODED | 1 | 55 | 480 | 0 | 1 | L1 | 207 | 175 | 190 | SL/IV/FA/ME/MF | B 13 | IHL | CA |
| 60L20 | 12 | FLOODED | 1 | 60 | 510 | 0 | 1 | L2B | 242 | 175 | 175 | SL/IV/FA/ME/MF | B 13 | IHL | CA |
| 62L22 | 12 | FLOODED | ✓ | 62 | 540 | 0 | 1 | L2 | 242 | 175 | 190 | SL/IV/FA/ME/MF | B 13 | IHL | CA |
| 65X22 | 12 | FLOODED | ✓ | 65 | 570 | 0 | 1 | L2 | 242 | 175 | 190 | SL/IV/FA/ME/MF | B 13 | IHL | CA |
| 70L30 | 12 | FLOODED | ✓ | 70 | 600 | 0 | 1 | L3B | 276 | 175 | 175 | SL/IV/FA/ME/MF | B 13 | IHL | CA |
| 74L32 | 12 | FLOODED | ✓ | 74 | 680 | 0 | 1 | L3 | 276 | 175 | 190 | SL/IV/FA/ME/MF | B 13 | IHL | CA |
| 80X32 | 12 | FLOODED | ✓ | 80 | 720 | 0 | 1 | L3 | 276 | 175 | 190 | SL/IV/FA/ME/MF | B 13 | IHL | CA |
| 00X56 | 12 | FLOODED | ✓ | 100 | 800 | 0 | 1 | L5 | 352 | 175 | 190 | SL/IV/FA/ME/MF | B 13 | IHL | CA |



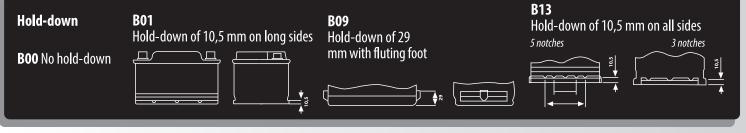


| FAAM | ٧ | TECHNOLOGY | MAINTENANCE | ELECTRIC | FEATURES | LAYOUT | TYPE OF | TYPE OF | DIME | NSIONS | (mm) | LID | HOLD | HANDLES | ES VERSION |
|-------|-----|------------|-----------------|----------|----------|----------|-----------|---------|--------|--------|--------|----------------|------|---------|------------|
| CODE | | | FREE | Capacity | CCA | POLARITY | TERMINALS | вох | Length | Width | Height | | DOWN | | |
| | | | | Ah (20h) | A (EN) | | | | L | W | Н | | | | |
| CTAI | DT. | OWED 1 | FEGURIOLO | 01/ | | | | | | | | | | | |
| SIA | KI | 'UWEK I | TECHNOLO | GY | | | | | | | | | | | |
| 35NS1 | 12 | FLOODED | ✓ | 35 | 300 | 1 | 3+1 | NS40 | 185 | 126 | 220 | ASIA | B 00 | IHL | CA |
| 35NS2 | 12 | FLOODED | ✓ | 35 | 300 | 0 | 3+1 | NS40 | 185 | 135 | 220 | ASIA | B 01 | IHL | CA |
| 35NS4 | 12 | FLOODED | ✓ | 35 | 300 | 0 | 3+1 | NS40 | 185 | 126 | 220 | ASIA | B 00 | IHL | CA |
| 44L02 | 12 | FLOODED | | 44 | 360 | 0 | 1 | L0 | 175 | 175 | 190 | SL/IV | B 13 | | CA |
| 44R10 | 12 | FLOODED | ✓ | 44 | 360 | 0 | 1 | L1B | 207 | 175 | 175 | SL/IV/FA/ME/MF | B 13 | IHL | CA |
| 45E21 | 12 | FLOODED | | 45 | 330 | 1 | 1 | E2 | 217 | 135 | 222 | FL | B 01 | | CA/CS |
| 45E22 | 12 | FLOODED | | 45 | 330 | 0 | 1 | E2 | 217 | 135 | 222 | FL | B 01 | | CA/CS |
| 45NS3 | 12 | FLOODED | ✓ | 45 | 330 | 1 | 3+1 | NS60 | 236 | 127 | 220 | ASIA | B 00 | IHL | CA |
| 45NS4 | 12 | FLOODED | ✓ | 45 | 330 | 0 | 3+1 | NS60 | 236 | 127 | 220 | ASIA | B 00 | IHL | CA |
| 52R11 | 12 | FLOODED | ✓ | 52 | 400 | 1 | 1 | L1 | 207 | 175 | 190 | SL/IV/FA/ME/MF | B 13 | IHL | CA |
| 52R12 | 12 | FLOODED | ✓ | 52 | 400 | 0 | 1 | L1 | 207 | 175 | 190 | SL/IV/FA/ME/MF | B 13 | IHL | CA |
| 60R20 | 12 | FLOODED | ✓ | 60 | 480 | 0 | 1 | L2B | 242 | 175 | 175 | SL/IV/FA/ME/MF | B 13 | IHL | CA |
| 60D21 | 12 | FLOODED | | 60 | 480 | 1 | 1 | D23 | 230 | 170 | 223 | FL | B 00 | | CS |
| 60D22 | 12 | FLOODED | | 60 | 480 | 0 | 1 | D23 | 230 | 170 | 223 | FL | B 00 | | CS |
| 62R21 | 12 | FLOODED | 1 | 62 | 530 | 1 | 1 | L2 | 242 | 175 | 190 | SL/IV/FA/ME/MF | B 13 | IHL | CA |
| 62R22 | 12 | FLOODED | ✓ | 62 | 530 | 0 | 1 | L2 | 242 | 175 | 190 | SL/IV/FA/ME/MF | B 13 | IHL | CA |
| 70R30 | 12 | FLOODED | 1 | 70 | 600 | 0 | 1 | L3B | 276 | 175 | 175 | SL/IV/FA/ME/MF | B 13 | IHL | CA |
| 74R31 | 12 | FLOODED | 1 | 74 | 650 | 1 | 1 | L3 | 276 | 175 | 190 | SL/IV/FA/ME/MF | B 13 | IHL | CA |
| 74R32 | 12 | FLOODED | 1 | 74 | 650 | 0 | 1 | L3 | 276 | 175 | 190 | SL/IV/FA/ME/MF | B 13 | IHL | CA |
| 80G43 | 12 | FLOODED | 1 | 80 | 620 | 1 | 1 | Gr 24 | 260 | 175 | 225 | ASIA | B 01 | IHL | CA |
| 80G44 | 12 | FLOODED | 1 | 80 | 620 | 0 | 1 | Gr 24 | 260 | 175 | 225 | ASIA | B 01 | IHL | CA |
| 80L40 | 12 | FLOODED | | 80 | 700 | 0 | 1 | L4B | 314 | 175 | 175 | SL/IV | B 13 | IHL | CA |
| 80R40 | 12 | FLOODED | √ | 80 | 700 | 0 | 1 | L4B | 314 | 175 | 175 | SL/IV/FA/ME/MF | B 13 | IHL | CA |
| 80L42 | 12 | FLOODED | | 80 | 750 | 0 | 1 | L4 | 314 | 175 | 190 | SL/IV | B 13 | IHL | CA |
| 80R42 | 12 | FLOODED | √ | 80 | 750 | 0 | 1 | L4 | 314 | 175 | 190 | SL/IV/FA/ME/MF | B 13 | IHL | CA |
| 92R50 | 12 | FLOODED | / | 92 | 720 | 0 | 1 | L5B | 352 | 175 | 175 | SL/IV/FA/ME/MF | B 01 | IHL | CA |
| 60003 | 12 | FLOODED | ✓ | 100 | 760 | 1 | 1 | GR28 | 310 | 175 | 225 | SL/IV/FA/ME/MF | B 13 | IHL | CA |
| 60004 | 12 | FLOODED | / | 100 | 760 | 0 | 1 | GR28 | 310 | 175 | 225 | SL/IV/FA/ME/MF | B 13 | IHL | CA |
| 00R42 | 12 | FLOODED | √ | 100 | 800 | 0 | 1 | L4 | 314 | 175 | 190 | SL/IV/FA/ME/MF | B 13 | IHL | CA |
| 00R51 | 12 | FLOODED | / | 100 | 800 | 1 | 1 | L5 | 352 | 175 | 190 | SL/IV/FA/ME/MF | B 13 | IHL | CA |
| 00R52 | 12 | FLOODED | ✓ | 100 | 800 | 0 | 1 | L5 | 352 | 175 | 190 | SL/IV/FA/ME/MF | B 13 | IHL | CA |
| 00L62 | 12 | FLOODED | | 110 | 950 | 0 | 1 | L6 | 393 | 175 | 190 | SL/IV | B 13 | IHL | CA |



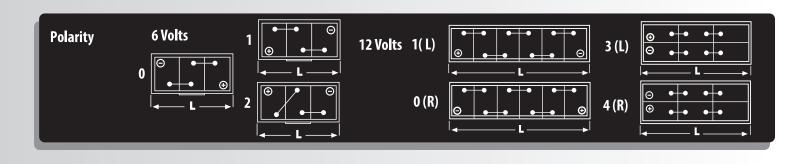


| AAM | ٧ | TECHNOLOGY | MAINTENANCE | ELECTRIC | FEATURES | LAYOUT | TYPE OF | TYPE OF | | NSIONS | | LID | HOLD | HANDLES | VERSIO |
|------------|----------|--------------------|-------------|----------------------|---------------|-----------------------|--------------------|-----------|-------------|------------|-------------|----------------|--------------|----------|--------|
| ODE | | | FREE | Capacity Ah (20h) | CCA A (EN) | POLARITY | TERMINALS | ВОХ | Length L | Width W | Height H | | DOWN | | |
| EN | IUS | PRO EN | IERGY TEC | HNOLOG | iΥ | stop (53) shock | 5HD | EHI! | | | | | | | |
| 092 | 12 | FLOODED-S3 | ✓ | 210 | 1250 | SYSTEM 3 | 1 | В | 513 | 223 | 223 | FL/IV/FA/ME/MF | B 00 | HL | CA |
| 2092 | 12 | FLOODED-S3 | ✓ | 240 | 1400 | 3 | 1 | С | 518 | 273 | 242 | FL/IV/FA/ME/MF | B 00 | HL | CA |
| EN | IUS | ENERGY | 'TECHNOL | OGY | | shock system | 5 <mark>H</mark> □ | | | | | | | | |
| 1570 | 12 | FLOODED-S3 | ✓ | 145 | 900 | 3 | 1 | А | 513 | 189 | 223 | FL/IV/FA/ME/MF | B 01 | HL | CA |
| 7072 | 12 | FLOODED-S3 | ✓ | 170 | 1000 | 3 | 1 | В | 513 | 223 | 223 | FL/IV/FA/ME/MF | B 00 | HL | CA |
| 3072 | 12 | FLOODED-S3 | ✓ | 180 | 1100 | 3 | 1 | В | 513 | 223 | 223 | FL/IV/FA/ME/MF | B 00 | HL | CA |
| 2072 | 12 | FLOODED-S3 | ✓ | 225 | 1250 | 3 | 1 | C | 518 | 273 | 242 | FL/IV/FA/ME/MF | B 00 | HL | CA |
| 2071 | 12 | FLOODED-S3 | √ | 225 | 1250 | 4 stop | 1 | (| 518 | 273 | 242 | FL/IV/FA/ME/MF | B 00 | HL | CA |
| MA | RT | PRO EN | ERGY TECI | HNOLOG | Y | \$hock system | SHO HO | | | | | | | | |
| 2080 | 12 | FLOODED-S3 | | 120 | 850 | 3 | 1 | А | 513 | 189 | 223 | FL/IV/FA/ME/MF | B 01 | HL | CA |
| 580 | 12 | FLOODED-S3 | | 135 | 900 | 3 | 1 | Α | 513 | 189 | 223 | FL/IV/FA/ME/MF | B 01 | HL | CA |
| 082 | 12 | FLOODED-S3 | | 160 | 950 | 3 | 1 | В | 513 | 223 | 223 | FL/IV/FA/ME/MF | B 00 | HL | CA |
| 3082 | 12 | FLOODED-S3 | | 180 | 1050 | 3 | 1 | В | 513 | 223 | 223 | FL/IV/FA/ME/MF | B 00 | HL | CA |
| 0082 | 12 | FLOODED-S3 | | 200 | 1100 | 3 | 1 | В | 513 | 223 | 223 | FL/IV/FA/ME/MF | B 00 | HL | CA |
| 2082 | 12 | FLOODED-S3 | | 220 | 1200 | 3 | 1 | (| 518 | 273 | 242 | FL/IV/FA/ME/MF | B 00 | HL | CA |
| 2081 | 12 | FLOODED-S3 | | 220 | 1200 | 4 | 1 | C | 518 | 273 | 242 | FL/IV/FA/ME/MF | B 00 | HL | CA |
| MA | RT | ENERGY | TECHNOL | DGY | | SHO | | | | | | | | | |
| 2061 | 6 | FLOODED | | 120 | 680 | 0 | 1 | M4 | 240 | 169 | 225 | FL | B 00 | | CA |
| 5061 | 6 | FLOODED | | 160 | 850 | 0 | 1 | M5 | 327 | 175 | 234 | FL | B 01 | HL | CA |
|)G75 | 12 | FLOODED | | 100 | 760 | 1 | 1 | Gb 28 | 330 | 175 | 205 | FL | B 13 | HL | CA/CS |
|)G76 | 12 | FLOODED | | 100 | 760 | 0 | 1 | Gb 28 | 330 | 175 | 205 | FL | B 13 | HL | CA/CS |
| 561 | 12 | FLOODED | | 105 | 710 | 0 | 1 | Comp. 90 | 344 | 172 | 232 | FL | B 00 | IHL | CA/CS |
| 562 | 12 | FLOODED | | 105 | 710 | 1 | 1 | Comp. 90 | 344 | 172 | 232 | FL | B 00 | IHL | CA/CS |
| 063 | 12 | FLOODED | | 110 | 850 | 0 | 1 | Comp. 90 | 344 | 176 | 232 | FL | B 01 | IHL | CA |
| 2060 | 12 | FLOODED | | 120 | 850 | 3 | 1 | А | 513 | 189 | 223 | FL | B 01 | IHL | CA |
| 2062 | 12 | FLOODED | | 120 | 850 | 3 | 1 | MAC 120 | 509 | 175 | 228 | FL | B 13 | HL | CA/CS |
| 2061 | 12 | FLOODED | | 120 | 850 | 4 | 1 | MAC 120 | 509 | 175 | 228 | FL | B 13 | HL | CA/CS |
| 061 | 12 | FLOODED | | 130 | 720 | 0 | 1 | Comp. 120 | 344 | 172 | 283 | FL | B 00 | IHL | CA |
| 062 | 12 | FLOODED | | 130 | 720 | 1 | 1 | Comp. 120 | 344 | 172 | 283 | FL | B 00 | IHL | CA |
| 560 | 12 | FLOODED | | 135 | 900 | 3 | 1 | A | 513 | 189 | 223 | FL | B 01 | HL | CA |
| 561 | 12 | FLOODED | | 135 | 900 | 4 | 1 | A | 513 | 189 | 223 | FL | B 01 | HL | CA |
| 572 | 12 | FLOODED | | 135 | 850 | 0 | 1 | MAT 132 | 508 | 175 | 210 | FL PL/IV | B 01 | HL | CA/CS |
| 0M3 | 12 | FLOODED | | 150 | 950 | 3 | 1 | MAC 143/D | 514 | 218 | 210 | BL/IV | B 13 | HL | CAIC |
| 062 | 12 | FLOODED | | 160 | 950 | 3 | 1 | В | 513 513 | 223 | 223 | FL | B 00 | HL | CA/CS |
| 061 | 12 | FLOODED | | 160 | 950 | 4 | 1 | В | 513 | 223 223 | 223 | FL | B 13 | HL | CA/CS |
| 8062 | 12 | FLOODED | | 180 | 1050 | 3 | 1 | В | 513 | 223 | 223 | FL FL | B 00 | HL | CA |
| 061 0M1 | 12 | FLOODED | | 180 | 1050 | 4 | 1 | MAC 143/D | 514 | 218 | | BL BL | B 13 | HL | CA |
| 0M1 | 12 | FLOODED | | 200 | 1100 | 4 | 1 | MAC 143/D | 513 | 218 | 210 | FL | B 13 | HL | CAICS |
| 0062 | 12 | FLOODED FLOODED | | 200 | 1100 | 3 | 1 | В | 513 | | | FL | B 00 | HL | CA/CS |
| 061 | 12 12 | FLOODED | | 200 | 1100 1200 | 4 | 1 | С | 518 | 223 273 | 223 | FL | B 13 B 00 | HL HL | CA/CS |
| 2062 | | | | 220 | | 3 | 1 | (| 518 | 273 | | FL | | | |
| 2061 | 12 | FLOODED | | 220 | 1200 | 4 | | | 219 | 2/3 | 242 | ΓL | B 00 | HL | CA/CS |

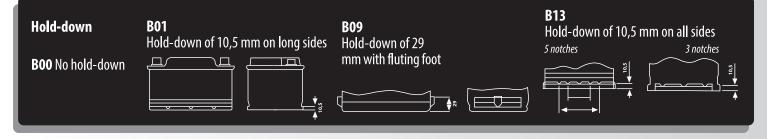


| FAAM | ٧ | TECHNOLOGY | MAINTENANCE | ELECTRIC | FEATURES | LAYOUT | TYPE OF | TYPE OF | DIME | NSIONS | (mm) | LID | HOLD | HANDLES | VERSION |
|--------|-------|------------|-------------|----------------------|---------------|----------|-----------|---------|-------------|------------|-------------|-------|------|---------|---------|
| CODE | | | FREE | Capacity Ah (20h) | CCA A (EN) | POLARITY | TERMINALS | ВОХ | Length L | Width W | Height H | | DOWN | | |
| MIS | ΓRA | L HEAV | Y PLUS TEC | CHNOLOG | Υ | | | | | | | | | | |
| STARTE | R FOI | R BOATS A | AND SMALL | YACHTS | | | | | | | | | | | |
| 80M32 | 12 | FLOODED | | 80 | 680 | 0 | 1 | L3 | 276 | 175 | 190 | SL/IV | B 13 | IHL | CA |
| 00M56 | 12 | FLOODED | | 100 | 800 | 0 | 1 | L5 | 352 | 175 | 190 | SL/IV | B 13 | IHL | CA |
| 60078 | 12 | FLOODED | | 100 | 730 | 0 | 1 | Gb 28 | 330 | 175 | 205 | FL | B 00 | HL | CS |
| STARTE | R FOI | R DEEP-SE | A MARINE | | | | | | | | | | | | |
| 72007 | 12 | FLOODED | | 220 | 810 | 3 | 35 | | 430 | 395 | 280 | | B 00 | HL | CA/CS |
| 74007 | 12 | FLOODED | | 240 | 850 | 3 | 35 | | 430 | 395 | 280 | | B 00 | HL | CA/CS |
| 82017 | 12 | FLOODED | | 320 | 950 | 3 | 35 | | 550 | 395 | 280 | | B 00 | HL | CA/CS |
| BOARD | SERV | ICE | | | | | | | | | | | | | |
| 28540 | 4 | FLOODED | | 885 | | sx (4V) | 35 | | 410 | 220 | 580 | | B 00 | HL | CA |
| 35435 | 6 | FLOODED | | 430 | | 1 | 35 | | 330 | 220 | 475 | | B 00 | HL | CA |
| 36435 | 6 | FLOODED | | 520 | | 1 | 35 | | 410 | 220 | 475 | | B 00 | HL | CA |
| 37435 | 6 | FLOODED | | 610 | | 1 | 35 | | 490 | 220 | 475 | | B 00 | HL | CA |
| 38435 | 6 | FLOODED | | 680 | | 1 | 35 | | 515 | 220 | 475 | | B 00 | HL | CA |
| 39435 | 6 | FLOODED | | 780 | | 1 | 35 | | 600 | 220 | 475 | | B 00 | HL | CA |

| LAT P | LATE | | | Ah/20h | Ah/5h | | | | | | | | | | |
|-------|-------|----------|---|--------|-------|---|---|-----------|-----|-----|-----|-------------|------|-----|----|
| 24061 | 6 | FLOODED | | 240 | 190 | 0 | 1 | GOLF-CART | 244 | 190 | 282 | SL | B 00 | | CA |
| 80T32 | 12 | FLOODED | | 80 | 64 | 0 | 1 | L3 | 276 | 175 | 190 | SL/IV/FA/SP | B 13 | IHL | CA |
| 58061 | 12 | FLOODED | | 80 | 64 | 1 | 1 | Gr 24 | 287 | 175 | 230 | FL | B 09 | | CA |
| 00T56 | 12 | FLOODED | | 100 | 80 | 0 | 1 | L5 | 352 | 175 | 190 | SL/IV/FA/SP | B 13 | IHL | CA |
| 60068 | 12 | FLOODED | | 100 | 80 | 0 | 1 | Gr 28 | 330 | 175 | 220 | FL | B 01 | HL | CA |
| 63071 | 12 | FLOODED | | 130 | 105 | 0 | 1 | Comp. 120 | 344 | 172 | 283 | FL | B 00 | IHL | CA |
| 69962 | 12 | FLOODED | | 200 | 160 | 3 | 1 | В | 513 | 223 | 218 | FL | B 00 | HL | CA |
| 71962 | 12 | FLOODED | | 220 | 165 | 3 | 1 | C | 518 | 279 | 238 | FL | B 00 | HL | CA |
| ΓUBUL | AR PL | ATE | | | | | | | | | | | | | |
| 24071 | 6 | FLOODED | | 240 | 185 | 0 | 1 | GOLF-CART | 244 | 190 | 282 | SL | B 00 | | CA |
| 24081 | 6 | FLOODED | | 260 | 205 | 0 | 1 | GOLF-CART | 244 | 190 | 282 | SL | B 00 | | CA |
| 59078 | 12 | FLOODED | | 95 | 75 | 0 | 1 | Gr 28 | 304 | 175 | 228 | SL/IV | B 01 | IHL | CA |
| 58578 | 12 | FLOODED | | 100 | 80 | 0 | 1 | Comp. 90 | 344 | 172 | 232 | FL | B 00 | IHL | CA |
| 61578 | 12 | FLOODED | | 135 | 110 | 0 | 1 | Comp. 120 | 344 | 172 | 283 | FL | B 00 | IHL | CA |
| EL | | | | | | | | | | | | | | | |
| 24091 | 6 | VRLA-GEL | ✓ | 225 | 180 | 0 | 1 | GOLF-CART | 244 | 190 | 276 | SL | B 00 | | CA |
| 61588 | 12 | VRLA-GEL | / | 135 | 110 | 0 | 1 | Comp. 120 | 344 | 172 | 283 | FL | B 00 | IHL | CA |

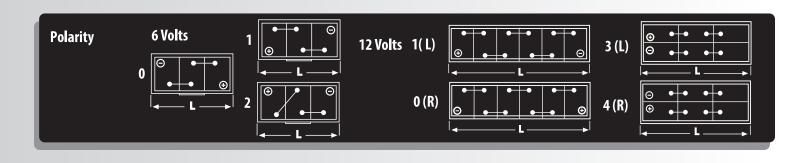


| FAAM | V T | TECHNOLOGY | MAINTENANCE | ELECTRIC FE | ATURES | LAYOUT | TYPE OF | TYPE OF | DIMEN | | | LID | HOLD | HANDLES | VERSION |
|------------|-------------|------------|-------------|-------------|--------|----------|-----------|---------|----------|-----|-----|----------------------|------|---------|---------|
| CODE | | | FREE | Capacity | CCA | POLARITY | TERMINALS | ВОХ | Length \ | | - 1 | | DOWN | | |
| | | | | Ah (20h) | A (EN) | | | | | W | Н | | | | |
| МОТО | ORC | YCLES | | | | | | | | | | | | | |
| FLOODED | | | | | | | | | | | | | | | |
| 6N4B-2A | 6 | FLOODED | | 4 | | 0 | M05 | | 70 | 47 | 96 | Hole L | B 00 | | CS |
| 6N4B-2A-4 | 6 | FLOODED | | 4 | | 0 | M05 | | 71 | 71 | 96 | No degas, hole | B 00 | | CS |
| 6N6-3B | 6 | FLOODED | | 6 | | 2 | M06 | | 99 | 57 | 111 | No degas, hole | B 00 | | CS |
| B39-6 | 6 | FLOODED | | 7 | | 0 | M06 | | 126 | 48 | 126 | No degas, hole | B 00 | | CS |
| B49-6 | 6 | FLOODED | | 8 | | 1 | M06 | | 91 | 83 | 161 | No degas, hole | B 00 | | CS |
| 6N11A-3A | 6 | FLOODED | | 11 | | 2 | M05 | | 122 | 62 | 131 | Hole L | B 00 | | CS |
| 6N11A-1B | 6 | FLOODED | | 11 | | 0 | M06 | | 122 | 62 | 131 | Hole R | B 00 | | CS |
| B 38-6A | 6 | FLOODED | | 13 | | 0 | M06 | | 119 | 83 | 161 | Hole R | B 00 | | CS |
| CB3L-A | 12 | FLOODED | | 3 | 32 | 0 | M06 | | 99 | 57 | 111 | Hole L | B 00 | | CS |
| CB3L-B | 12 | FLOODED | | 3 | 32 | 0 | M06 | | 99 | 57 | 111 | Hole R | B 00 | | CS |
| CB4L-B | 12 | FLOODED | | 4 | 60 | 0 | M05 | | 116 | 71 | 93 | Hole R | B 00 | | CS |
| 12N5-3B | 12 | FLOODED | | 5 | 65 | 0 | M06 | | 121 | 61 | 131 | Hole R | B 00 | | CS |
| CB5L-B | 12 | FLOODED | | 5 | 70 | 0 | M06 | | 121 | 61 | 131 | Hole R | B 00 | | CS |
| 12N5.5A-3B | | FLOODED | | 5,5 | 70 | 0 | M06 | | 104 | 91 | 115 | Hole R | B 00 | | CS |
| 12N5.5-4A | 12 | FLOODED | | 5,5 | 70 | 1 | M02 | | 138 | 61 | 131 | Hole L | B 00 | | CS |
| 12N5.5-3B | 12 | FLOODED | | 5,5 | 70 | 0 | M06 | | 138 | 61 | 131 | Hole R | B 00 | | CS |
| 12N7-3B | 12 | FLOODED | | 7 | 85 | 0 | M06 | | 137 | 76 | 135 | Hole R | B 00 | | CS |
| 12N7-4B | 12 | FLOODED | | 7 | 85 | 1 | M06 | | 137 | 76 | 135 | Hole R | B 00 | | CS |
| CB7-A | 12 | FLOODED | | 8 | 120 | 1 | M06 | | 137 | 76 | 135 | Hole L | B 00 | | CS |
| CB7L-B | 12 | FLOODED | | 8 | 120 | 0 | M06 | | 137 | 76 | 135 | Hole R | B 00 | | CS |
| СВ9-В | 12 | FLOODED | | 9 | 130 | 1 | M06 | | 138 | 77 | 133 | Hole R | B 00 | | CS |
| CB9L-A2 | 12 | FLOODED | | 9 | 130 | 0 | M02 | | 138 | 77 | 141 | Hole L | B 00 | | CS |
| 12N9-4B-1 | 12 | FLOODED | | 9 | 130 | 1 | M06 | | 137 | 76 | 140 | Hole R | B 00 | | CS |
| 12N9-3B | 12 | FLOODED | | 9 | 90 | 0 | M06 | | 137 | 76 | 140 | Hole R | B 00 | | CS |
| 12N10-3B | 12 | FLOODED | | 10 | 160 | 0 | M06 | | 136 | 91 | 146 | Hole R | B 00 | | CS |
| CB10L-A2 | 12 | FLOODED | | 11 | 160 | 0 | M04 | | 136 | 91 | 146 | Hole L | B 00 | | CS |
| CB12A-A | 12 | FLOODED | | 12 | 165 | 1 | M06 | | 135 | 81 | 161 | Hole L | B 00 | | CS |
| CB12A-B | 12 | FLOODED | | 12 | 165 | 1 | M06 | | 135 | 81 | 161 | Hole R | B 00 | | CS |
| CB12AL-A2 | | FLOODED | | 12 | 165 | 0 | M08 | | 136 | 81 | 161 | Hole L | B 00 | | CS |
| 12N14-3A | 12 | FLOODED | | 14 | 135 | 0 | M08 | | 136 | 91 | 167 | Hole L | B 00 | | CS |
| CB14-A2 | 12 | FLOODED | | 14 | 190 | 1 | M08 | | 136 | 91 | 167 | Hole L | B 00 | | CS |
| CB14L-A2 | 12 | FLOODED | | 14 | 190 | 0 | M08 | | 136 | 91 | 167 | Hole R | B 00 | | CS |
| SCB14L-B2 | 12 | FLOODED | | 14 | 190 | 0 | M08 | | 136 | 91 | 167 | Hole R - with sensor | B 00 | | CS |
| CB16-B | 12 | FLOODED | | 19 | 200 | 1 | M06 | | 176 | 101 | 156 | Hole R | B 00 | | CS |
| SCB16L-B | 12 | FLOODED | | 16 | 200 | 0 | M06 | | 176 | 101 | 156 | Hole L | B 00 | | CS |
| CB16B-A | 12 | FLOODED | | 16 | 220 | 1 | M04 | | 162 | 92 | 162 | Hole L | B 00 | | CS |
| CB16AL-A2 | | FLOODED | | 16 | 220 | 0 | M02 | | 207 | 71 | 164 | Hole L | B 00 | | CS |
| CB18L-A | 12 | FLOODED | | 18 | 235 | 0 | M07 | | 182 | 92 | 164 | Hole L | B 00 | | CS |
| CB16CL-B | 12 | FLOODED | | 19 | 240 | 0 | M10 | | 175 | 100 | 175 | Hole R | B 00 | | CS |
| 52015 | 12 | FLOODED | | 20 | 240 | 0 | M07 | | 186 | 82 | 173 | Hole R | B 00 | | CS |
| SC50 N18LA | r 12 | FLOODED | | 20 | 260 | 0 | M07 | | 207 | 92 | 164 | Hole L - with sensor | B 00 | | CS |
| 52432 | 12 | FLOODED | | 24 | 220 | 0 | M10 | | 187 | 128 | 165 | Hole RL | B 00 | IHL | CS |
| C60-N24-A | 12 | FLOODED | | 28 | 280 | 1 | M03 | | 185 | 125 | 176 | Hole L | B 00 | | CS |
| 53030 | 12 | FLOODED | | 30 | 300 | 0 | M11 | | 187 | 130 | 170 | Hole R | B 00 | IHL | CS |
| 53031 | 12 | FLOODED | | 30 | 300 | 1 | M11 | | 187 | 130 | 170 | Hole R | B 00 | IHL | CS |
| 53232 | 12 | FLOODED | | 32 | 300 | 0 | M10 | | 232 | 130 | 167 | Hole RL | B 00 | IHL | CS |
| 53532 | 12 | FLOODED | | 35 | 450 | 0 | | | 233 | 130 | 165 | Hole L | B 00 | IHL | CS |
| | | | | | | | | | | | | | | | |



| FAAM | ٧ | TECHNOLOGY | MAINTENANCE | ELECTRIC F | EATURES | LAYOUT | TYPE OF | TYPE OF | DIMEN | SIONS | (mm) | LID | HOLD | HANDLES | VERSION |
|-------------|----|------------|-------------|----------------------|---------------|----------|-----------|---------|----------|------------|-------------|----------------|------|---------|---------|
| CODE | | | FREE | Capacity Ah (20h) | CCA A (EN) | POLARITY | TERMINALS | ВОХ | Length V | Width W | Height H | | DOWN | | |
| МОТО | R | CYCLES | 3 | | | | | | | | | | | | |
| MAINTEN | AN | CE FREE | | | | | | | | | | | | | |
| XTR4A-BS | 1. | 2 | ✓ | 2,3 | 45 | 4 | M12 | | 114 | 49 | 86 | No degas. hole | B 00 | | CA |
| CBTX4L-BS | 1. | 2 | ✓ | 4 | 50 | 0 | M05 | | 114 | 71 | 86 | No degas. hole | B 00 | | CS |
| CBTX5L-BS | 1. | 2 | ✓ | 5 | 70 | 0 | M05 | | 114 | 71 | 106 | No degas. hole | B 00 | | CS |
| CBTZ7-BS | 1. | 2 | ✓ | 6 | 70 | 0 | M05 | | 114 | 71 | 106 | No degas. hole | B 00 | | CS |
| CBT7B-BS | 1. | 2 | ✓ | 6.5 | 90 | 1 | M05 | | 150 | 65 | 93 | No degas. hole | B 00 | | CA |
| CBTX7A-BS | 1. | 2 | ✓ | 7 | 90 | 1 | M05 | | 152 | 88 | 94 | No degas. hole | B 00 | | CS |
| CBTX7L-BS | 1. | 2 | ✓ | 7 | 90 | 0 | M05 | | 114 | 71 | 131 | No degas. hole | B 00 | | CS |
| CBT9B-BS | 1. | 2 | ✓ | 8 | 110 | 1 | M04 | | 150 | 70 | 105 | No degas. hole | B 00 | | CA |
| CBTX9-BS | 1. | 2 | ✓ | 9 | 120 | 1 | M04 | | 152 | 88 | 106 | No degas. hole | B 00 | | CS |
| CBTZ10-BS | 1. | 2 | ✓ | 9 | 120 | 1 | M05 | | 152 | 88 | 93 | No degas. hole | B 00 | | CA |
| CBT12A-BS | 1. | 2 | ✓ | 10 | 120 | 1 | M05 | | 152 | 88 | 106 | No degas. hole | B 00 | | CS |
| CBT12B-BS | 1. | 2 | ✓ | 10 | 180 | 1 | M05 | | 152 | 70 | 131 | No degas. hole | B 00 | | CA |
| CBTZ12-BS | 1. | 2 | ✓ | 11 | 210 | 1 | M05 | | 152 | 88 | 110 | No degas. hole | B 00 | | CA |
| CBTZ12-BD | 1. | 2 | ✓ | 11 | 210 | 0 | M04 | | 152 | 88 | 110 | No degas. hole | B 00 | | CA |
| CBTX12-BS | 1. | 2 | ✓ | 12 | 180 | 1 | M05 | | 152 | 88 | 131 | No degas. hole | B 00 | | CS |
| CBTX14-BS | 1. | | ✓ | 14 | 200 | 1 | M05 | | 152 | 88 | 147 | No degas. hole | B 00 | | CS |
| CBTX20-BS | 1. | 2 | ✓ | 18 | 270 | 1 | M05 | | 177 | 88 | 156 | No degas. hole | B 00 | | CS |
| CBTX20L-BS | 1. | 2 | ✓ | 18 | 270 | 0 | M05 | | 177 | 88 | 156 | No degas. hole | B 00 | | CA |
| CBTX24HL-BS | 1. | 2 | ✓ | 21 | 350 | 0 | M05 | | 205 | 85 | 162 | No degas. hole | B 00 | | CS |





INSTRUCTIONS FOR USE

1. STORAGE AND TRANSPORTATION

Starter batteries do not require any maintenance if they are dry charged. They must be stored in a cool, dry place (avoid very cold areas).

Temperatures between 20°C-30°C (68°F-86°F).

Wet charged starter batteries shall be recharged when acid density falls below 1.23kg/I (1.18kg/I if the first filling acid density is 1.23kg/I);

however, every 4-6 months of storage.

Wet charged batteries shall be blocked in upright position and transported in this position, otherwise there is a risk of acid leakage or a possible overturning during transport.

2. STARTING OPERATION

Dry charge starter batteries are ready for use without the need for any recharge after filling with acid.

During the filling-up operation, the temperature of the acid and of the battery should be between 15°C (59°C) and 20°C (68°F) Remove the

plugs. Fill up all battery cells with sulphuric acid—according to VDE 0510, with a density of 1.28 kg/l (or 1.23kg/l in tropical countries) until

you reach the maximum level of acid or a height of 15 mm above the plates. Leave the battery alone for 15-30 minutes, in order to allow the plate to absorbe the electrolyte well. Then, if needed, fill it with more electrolyte

until the aforementioned correct level is reached. Put the plugs in and screw them down accurately. Dry all acid drops and spurts. The batteries are now filled up and ready for use.

NOTE: the battery—because of a too low temperature, unfavourable storage conditions or a storage time over 6 months, needs to be

recharged. That, giving a current equal to 1/10 of the nominal capacity (e.g.: 4.5A of charging current in case of a 45Ah battery) for 4h-6h.

3. INSTALLATION IN THE VEHICLE

Before the installation or the disinstallation of the battery, stop the engine and all devices that use electricity.

Beware of short-circuits caused by tools.

Before the disinstalling, remove the negative terminal (-) before the positive one

Clean the vehicle's battery compartment and support before placing the battery. Fasten the battery properly. Clean the battery poles and the terminals, smearing them slightly with anti-acid grease. When installing the battery

in the vehicle, assemble the positive pole (+) before the negative one (-).

Make sure all the terminals are properly fastened.

4. OUT-OF-VEHICLE CHARGING

It is recommended to remove the battery from the vehicle prior to charging. If the battery is to be charged on board the vehicle, it is necessary

to disconnect the battery cables (follow the vehicle manufacturer's instructions). Batteries can be charged only with direct current. Connect the positive terminal (+) of the battery to the positive terminal (+) of the battery charger and the negative terminal (-) of the battery to the negative terminal (-) of the battery charger. Switch the charger on only after connecting the battery to it. When charging is over stop the battery charger before disconnecting the battery.

It is recommended to charge the battery with a current of 1/10 of the nominal capacity (e.g.: 4.5 A for 45 Ah batteries)

Acid temperature shall not exceed 55°C (131°F) during charging; if that happens stop immediately the charging. The battery is fully charged when the acid density and the charging voltage do not increase over a two hours period.

Check the electrolyte level after charging and, if necessary, add demineralised or distilled water until the water level reaches the maximum or at least it is 15 mm above the plates. Make sure there is proper ventilation during the charging.

The following recommendations should be observed to ensure a long battery duration.

Keep the battery surface clean and dry. Regularly check the electrolyte level and add demineralised or distilled water if needed. Never add acid.

In case of a major water decreasing the voltage of the charge regulator should be checked by a specialist.

Do not use so-called "improvement" products.

The battery's charge status can be assessed by checking the electrolyte's density. Recharge the battery if density is below 1.23kg/I (or 1.18kg/I if initial density of acid was 1.23kg/I).

This value of electrolyte density protects the battery against cold for temperatures up to approximately -15° C/5°F (up to -70°C/-94°F if d=1.28kg/I).

6. MAGIC EYE

The magic eye monitors the status of the battery:

Green: charged

Black: low charge or needs to be checked

The magic eye is in the Top Power Safe range.

7. ASSISTANCE TO ENGINE STARTING BY MEANS OF ANOTHER VEHICLE

Use only standard cables (e.g. DIN 72533). Always follow cable usage instructions. Connect only batteries with the same nominal voltage.

Connection: stop both the engines, first connect the two positive terminals and then the negative terminals (-) of the charged battery (to a metal,

non insulated spot in the non-working vehicle). (Follow all relevant instructions from the vehicle manufacturers).

Start the "helping" vehicle, then start the engine of the non-working vehicle for a maximum time of 15 seconds.

Disconnect the cables in the reverse order.

8. TEMPORARY NON-USE OF THE VEHICLE

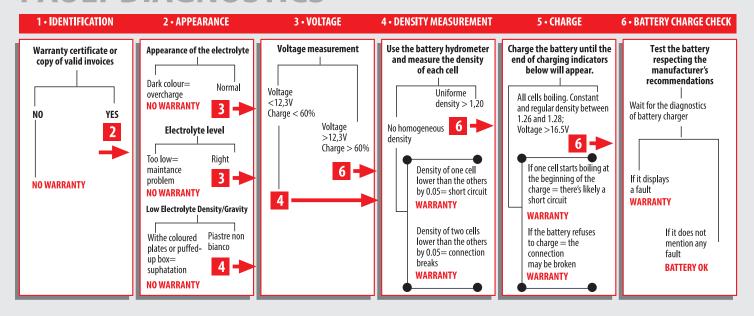
Remove the battery from the vehicle and store it in a fresh and dry place. On the contrary, if the battery remains on the vehicle, disconnect the negative (-) terminal.

Regularly control the level of charge.

9. SMART - ENERGY TECHNOLOGY

They were designed and built for traditional vehicles, before 2000, and for vehicles that do not belong to the latest generations. Some care is needed against the electrolyte leakage.

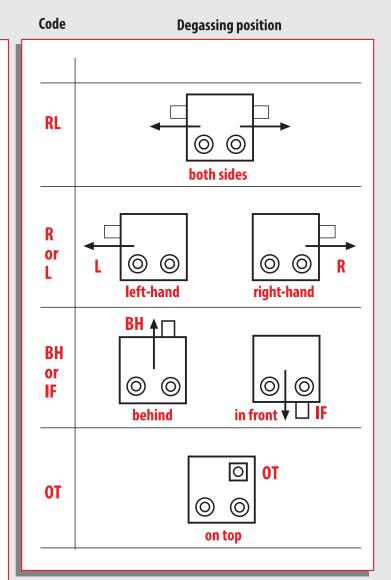
FAULT DIAGNOSTICS



Motorbike Battery Terminals

Type Front view Side view Top view M₀₁ M₀₂ M03M₀₄ M₀₅ M 06 M 07 M 08 M₀₉ M 10 M 11 M 12 M 13

Gas expulsion position



Explanation about battery details

Version

CA = Battery type, which is Available as Wet Charged

CS = Battery type, which is Available as Dry Charged

Features of the cover

BL (block lid)= (Kamina type) the terminals height is the same as the lid height. The plugs embedded under the lid surface. There is no perimetrical space around the lid for possible fixings.

FL (flat lid)= The lid surface is completely flat; the terminals and the plugs stick out from it.

SL (semi lid)= (Kamina type) the terminals height is the same as the lid height. The plugs embedded under the lid surface. There is a 15mm perimetrical space for the possible fixing of upper clamps.

IV (internal valve)= special lid with central degassing.

FA = Flame Arrester.

SP = Spill Proof.

VR = Valve Regulator

IHL = Handle integrated in the lid.

HL = Rope handles fixed on the short sides of the battery. All the batteries are built in polypropylene, excepted those ones in which is differently specified.

ME = Magic Eye

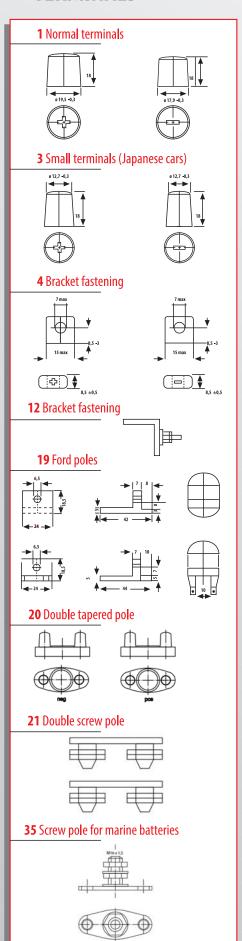
MF = Maintenance Free

FEATURES

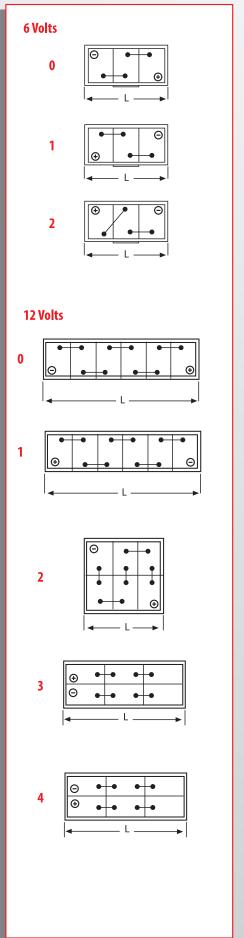
HOLD - DOWNS

B00 No hold-downs **B01** Hold-down 10,5 mm on long sides **B04** Hold-down of 19 mm on long sides B07 Hold-down of 10,5 mm **B09** Hold-down of 29 mm with fluting foot **B13** Hold-down of 10,5 mm on all sides 3 notches

TERMINALS



POLARITY



SYNOPTIC TABLE OF THE ADVANTAGES

POWER TECHNOLOGY

ENERGY TECHNOLOGY

| | CYCLES | SAFE | START | BLACK | GENIUS PRO | GENIUS | SMART PRO | SMART |
|---------------------------|--------|--------|-------|---------|---------------|--------|--------------|-------|
| General Judgment | ••••• | ••••• | •••• | •••• | ••••• | ••••• | •••• | ••••• |
| Cold Crancking Current | ••••• | ••••• | •••• | ••••• | ••••• | •••• | •••• | ••••• |
| Capacity | ••••• | ••••• | ••••• | •••• | ••••• | ••••• | ••••• | ••••• |
| Average life span | ••••• | ••••• | •••• | •••• | ••••• | ••••• | ••••• | ••••• |
| Cycle proof | ••••• | •••• | •••• | ••••• | ••••• | •••• | •••• | ••••• |
| Slower Self-discharge | ••••• | ••••• | •••• | ••••• | ••••• | ••••• | •••• | ••••• |
| Reduced water consumption | •••• | ••••• | •••• | •••• | ••••• | ••••• | •••• | •••• |
| Vibration resistance | •••• | ••••• | •••• | •••• | ••••• | •••• | •••• | •••• |
| | GOOD | VERY G | | CELLENT | | | | |

| ANNOTATIONS | |
|-------------|--|
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| | |

STARTER

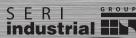


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FIB Srl Sede Legale

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