

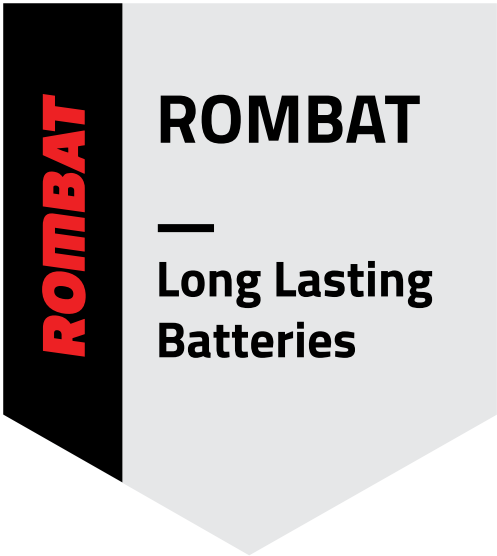
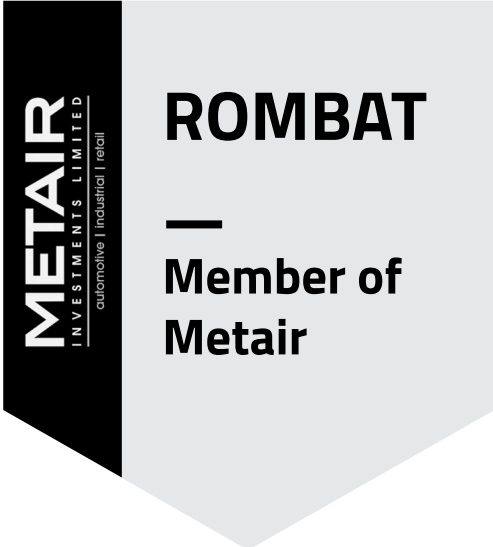
PRODUCT CATALOGUE | 2023

WWW.ROMBAT.RO

ROMBAT

Innovation & Technology for Excellence





The METAIR Investments Limited group, present for over 30 years on the market of distribution of products and services in the automotive industry and for over 10 years in Romania as the majority shareholder of ROMBAT, is the third player on the battery market in Europe, the Middle East and Africa.

METAIR's vision is to generate value for all its partners, in order to offer end customers high quality products. Among the METAIR customers there are the following names: Daimler Chrysler, General Motors, Nissan, Toyota, Volkswagen, BMW, MAN, Renault, Dacia etc.

METAIR is one of the few companies that produce batteries using the Start/Stop technology, whose mission is to strengthen the position of a manufacturer that uses competitive and innovative technologies at global level.

With over 40 years of experience on the Romanian market and with millions of batteries sold in over 40 countries on 4 continents, ROMBAT is a national leader in the production of batteries for vehicles, cars and machinery.

This was possible as a result of investments of over 20 million EUR over the last decade, which allowed Rombat to become a globally recognized battery manufacturer, with the ability to produce batteries at the highest quality standards, using the latest generation technologies and equipment.

The new investments of over 10 million EUR aim at the development of a production line for Heavy Duty batteries with EFB technology for heavy vehicles, AGM (Absorbent Glass Mat) batteries respectively, intended for cars that use a start-stop system.

Strategic partnerships for over 26 years as an OEM supplier for Dacia, Renault and Ford have meant at the same time a permanent investment in retooling, research, development and innovation, thus responding to the highest quality standards and requirements imposed by car manufacturers, being also pioneers in the creation of new technologies.

At the same time, ROMBAT focuses on social responsibility and care for a clean environment through permanent investments in the recycling factory in Copșa Mică, where over 1 million used batteries are being recycled every year. This way, we protect the environment by giving new life to used batteries by reintroducing the raw material obtained after waste recycling back into the circuit.

The records in sales and collection of used batteries obtained over time have been possible thanks to the help of Rombat's professional and efficient distribution network. Thus, Rombat batteries arrive in a very short time from the factory in all the corners of the country and in many countries of the world to meet the expectations of the most demanding customers.



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AUTO

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06 START-STOP

11 CONVENTIONAL

AUTO
START-STOP

AGM-VRLA

Applications: for vehicles with advanced Start-Stop technology, i.e., regenerative braking and others technologies for fuel saving



AGM (Absorbent Glass Mat) for advanced vehicles with Start/Stop system and regenerative braking

- Innovative AGM-VRLA technology with Absorbent Glass Mat separator
- Punched total frame positive and negative PbCa technology grids
- 3-4 times more cycle life compared to conventional batteries
- High charging acceptance for absorbing large surges of electrical energy generated via regenerative braking
- 100% leak-proof and spill-proof to 360° - Totally maintenance-free batteries
- High cold cranking amps, even in low temperature environments
- VRLA – pressure valve regulated lead acid batteries
- Long lifespan



START STOP



REGENERATIVE BRAKING



MAINTENANCE FREE



LEAKAGE FREE



OPTIONS



EXTREME USAGE

Catalogue code	Type	Capacity	Cold Cranking Amps (A) -18°C EN U10s≥7,5V	Base holddown	No. of rows Pieces on pallet	Dimensions (mm)	Layout
AGM60	L2	12V 60Ah	680	B13	3/60	L: 242 l: 175 H: 190	
AGM70	L3	12V 70Ah	720	B13	3/48	L: 278 l: 175 H: 190	
AGM80	L4	12V 80Ah	800	B13	3/42	L: 315 l: 175 H: 190	
AGM92	L5	12V 92Ah	850	B13	3/36	L: 353 l: 175 H: 190	

EFB

Applications: Standard Start-Stop vehicles with high energy consumption (e.g., taxi)



EFB (Enhanced Flooded Batteries) for conventional vehicles with Start/Stop system and regenerative braking

PbCa alloy expanded positive grids / ConCast negative grids (Continuous Casting technology)
 2 times more cycle life compared to conventional batteries
 Totally maintenance-free batteries
 Batteries with extended cycle life designed for vehicles with high energy demands.
 Designed for vehicles with advanced Start-Stop applications
 Higher charge acceptance for faster energy recovery while traveling



START STOP



MAINTENANCE FREE



LEAKAGE FREE



OPTIONS



EXTREME USAGE

Catalogue code	Type	Capacity	Cold Cranking Amps (A) - 18° C EN U10s≥7,5V	Base holddown	No. of rows Pieces on pallet	Dimensions (mm)	Layout
F260	L2	12V 60Ah	640	B13	3/60	L: 242 l: 175 H: 190	
FB365	LB3	12V 65Ah	680	B13	3/48	L: 278 l: 175 H: 175	
F370	L3	12V 70Ah	760	B13	3/48	L: 278 l: 175 H: 190	
FB475	LB4	12V 75Ah	800	B13	3/42	L: 315 l: 175 H: 175	
F480	L4	12V 80Ah	800	B13	3/42	L: 315 l: 175 H: 190	
F595	L5	12V 95Ah	850	B13	3/36	L: 353 l: 175 H: 190	

AUTO
START-STOP

CHAMPION

Applications: vehicles with additional electrical consumers and vehicles using the Start/Stop system



Capacities and starting currents higher than average batteries of the same dimensions
Usage both on classic cars and on cars with the Start-Stop system
Meets the OEM standard (battery used for a first installation)
Built for harsh operating conditions (including in taxi mode)
Designed for over 80,000 starts*
Battery fitted on conventional passenger cars, without Start&Stop system, and an yearly average mileage of 20,000

*number of starts in optimal vehicle operating conditions



START STOP



MAINTENANCE FREE



LEAKAGE FREE



OPTIONS

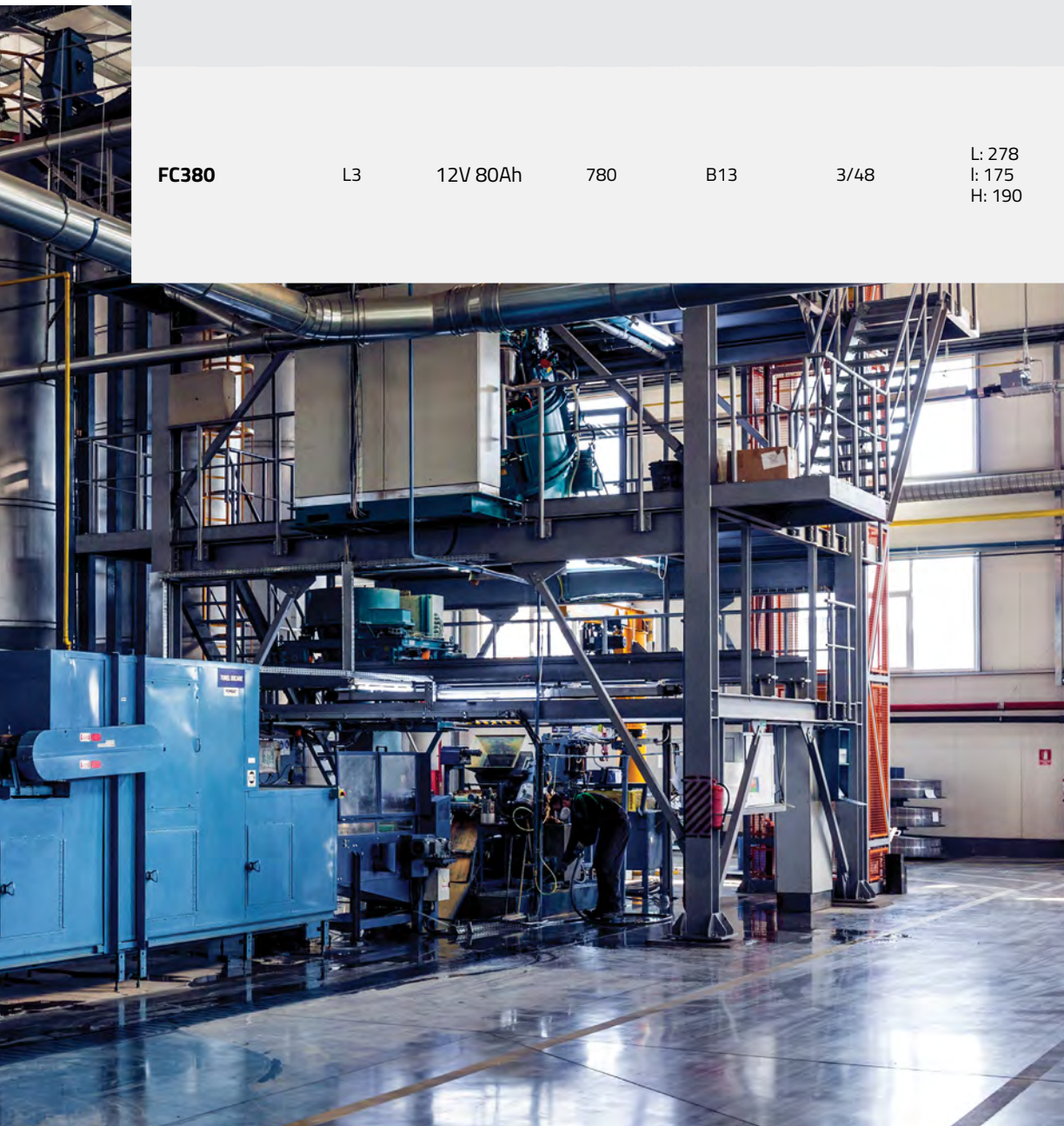


EXTREME USAGE



AUTO
START-STOP

Catalogue code	Type	Capacity	Cold Cranking Amps (A)-18°C EN U10S≥7,5V	Base holddown	No. of rows Pieces on pallet	Dimensions (mm)	Layout
FC264	L2	12V 64Ah	650	B13	3/60	L: 242 l: 175 H: 190	
FC270	L2	12V 70Ah	680	B13	3/60	L: 242 l: 175 H: 190	
FC380	L3	12V 80Ah	780	B13	3/48	L: 278 l: 175 H: 190	



AUTO
START-STOP

TORNADA ASIA EFB

Applications: vehicles with Start/Stop system and all conventional vehicles



EFB (Enhanced Flooded Batteries) for vehicles using the conventional Start/Stop system

EFB technology (Enhanced Flooded Battery)

The latest technology for primary equipment of standard Start/Stop vehicles

It supports twice as many cycles than all conventional batteries

High load capacity for faster energy recovery while on the move

Expanded grids of PbCa alloy

Tilting resistance up to 55°

It can sustain a large number of cycles

High operating time

No maintenance



START STOP



MAINTENANCE FREE



LEAKAGE FREE



OPTIONS



EXTREME USAGE

Catalogue code	Type	Capacity	Cold Cranking Amps (A) - 18°C EN U10s≥7,5V	Base holddown	No. of rows Pieces on pallet	Dimensions (mm)	Layout
TAF65	D23	12V 65Ah	620	B01	3/63	L: 230 l: 172 H: 222	
TAF70	D26	12V 70Ah	720	B01	3/51	L: 259 l: 174 H: 222	
TAF85	D31	12V 85Ah	820	B01	3/42	L: 305 l: 174 H: 221	



TUNDRA PLUS

Applications: latest Conventional Cars with supplementary power consumers, optimal batteries for Petrol and Diesel cars (HDI, TDI) - vehicles with high energy consumption



PbCa alloy Expanded positive and ConCast (Continuous Casting technology) negative grids

Additional tin content in the positive grids

Sealed maintenance-free premium batteries equipped with double lid (except E6110 - Kamina lid), magic eye, one way plugs and labyrinth system for gas recovery

Designed for non Start-Stop applications with high energy demand



+30% Cranking Power



+25% Life Span



LONG LIFE GRID



MAINTENANCE FREE



LEAKAGE FREE



OPTIONS



EXTREME USAGE

Catalogue code	Type	Capacity	Cold Cranking Amps (A) - 18°C EN U10s≥7,5V	Base holddown	No. of rows Pieces on pallet	Dimensions (mm)	Layout
EB150	LB1	12V 50Ah	500	B13	3/60	L: 207 l: 175 H: 175	
E155	L1	12V 55Ah	540	B13	3/60	L: 207 l: 175 H: 190	
EB260	LB2	12V 60Ah	580	B13	3/60	L: 242 l: 175 H: 175	
E265	L2	12V 65Ah	640	B13	3/60	L: 242 l: 175 H: 190	
EB370	LB3	12V 70Ah	680	B13	3/48	L: 278 l: 175 H: 175	
E380	L3	12V 80Ah	750	B13	3/48	L: 278 l: 175 H: 190	
EB485	LB4	12V 85Ah	760	B13	3/42	L: 315 l: 175 H: 175	
EB590	LB5	12V 90Ah	850	B13	3/36	L: 353 W: 175 H: 175	
E5100	L5	12V 100Ah	900	B13	3/36	L: 353 W: 175 H: 190	
E6110	L6	12V 110Ah	950	B13	3/36	L: 395 W: 175 H: 190	

AUTO
CONVENTIONAL

TORNADA PLUS

Applications: latest Conventional Cars with high level of equipment, optimal batteries for Petrol and Diesel vehicles (HDI, TDI)



Expanded positive grids, ConCast (Continuous Casting technology) negative grids
Sealed maintenance-free batteries equipped with double lid, magic eye and labyrinth system for gas recovery (except T044 - Kamina lid)



LONGLIFE
GRID



MAINTENANCE
FREE



LEAKAGE
FREE



OPTIONS



EXTREME
USAGE

Catalogue code	Type	Capacity	Cold Cranking Amps (A) - 18°C EN U10s7,5V	Base holddown	No. of rows Pieces on pallet	Dimensions (mm)	Layout
T044N	L0	12V 44Ah	400	B13	3/72	L: 175 l: 175 H: 190	
TB148N	LB1	12V 48Ah	400	B13	3/60	L: 207 l: 175 H: 175	
T152N	L1	12V 52Ah	480	B13	3/60	L: 207 l: 175 H: 190	
TB258N	LB2	12V 58Ah	510	B13	3/60	L: 242 l: 175 H: 175	
T262N	L2	12V 62Ah	560	B13	3/60	L: 242 l: 175 H: 190	
TB366N	LB3	12V 66Ah	620	B13	3/48	L: 278 l: 175 H: 175	
T375N	L3	12V 75Ah	700	B13	3/48	L: 278 l: 175 H: 190	
TB480N	LB4	12V 80Ah	720	B13	3/42	L: 315 W: 175 H: 175	
T595N	L5	12V 95Ah	850	B13	3/36	L: 353 W: 175 H: 190	

TORNADA ASIA JIS

Applications: batteries designed for Asian cars, Petrol and Diesel, with high level of equipment



Expanded positive grids, ConCast
(Continuous Casting technology) negative grids
Double lid with central handle
Sealed maintenance-free batteries



LONGLIFE
GRID



MAINTENANCE
FREE



LEAKAGE
FREE



OPTIONS



EXTREM
USAGE

Catalogue code	Type	Capacity	Cold Cranking Amps (A) -18°C EN U10S≥7,5V	Base holddown	No. of rows Pieces on pallet	Dimensions (mm)	Layout
TA40F	NS40	12V 40Ah	300	B00	3/72	L: 187 l: 127 H: 225	
TA40FG	NS40G	12V 40Ah	300	B00	3/72	L: 187 l: 127 H: 225	
TA50F	NS60	12V 50Ah	420	B00	3/60	L: 236 l: 128 H: 224	
TA50FG	NS60G	12V 50Ah	420	B00	3/60	L: 236 l: 128 H: 225	
TA60	D23	12V 60Ah	500	B01	3/60	L: 230 l: 172 H: 222	
TA60G	D23	12V 60Ah	500	B01	3/60	L: 230 l: 172 H: 222	
TA75	D26	12V 75Ah	610	B01	3/48	L: 259 l: 178 H: 222	
TA75G	D26	12V 75Ah	610	B01	3/48	L: 259 l: 178 H: 222	
TA100	D31	12V 100Ah	750	B01	3/36	L: 305 l: 179 H: 222	
TA100G	D31	12V 100Ah	750	B01	3/36	L: 305 l: 179 H: 222	

AUTO
CONVENTIONAL

PILOT

Applications: Batteries suitable for most Petrol and Diesel standard vehicles



Expanded/punched positive grids,
ConCast (Continuous Casting technology) negative grids
Basic range designed for standard vehicles
Kamina lids with flame arrestor that ensures protection against flame entering and allows gases evacuation
The most well-known Rombat range



LONGLIFE
GRID



MAINTENANCE
FREE



LEAKAGE
FREE



OPTIONS



INTENSIV
USAGE

Catalogue code	Type	Capacity	Cold Cranking Amps (A) - 18°C EN U10s≥7,5V	Base holddown	No. of rows Pieces on pallet	Dimensions (mm)	Layout
PB144N	LB1	12V 44Ah	320	B13	3/60	L: 207 l: 175 H: 175	
P145N	L1	12V 45Ah	340	B13	3/60	L: 207 l: 175 H: 190	
P145GN	L1	12V 45Ah	340	B13	3/60	L: 207 l: 175 H: 190	
P150N	L1	12V 50Ah	400	B13	3/60	L: 207 l: 175 H: 190	
PB255N	LB2	12V 55Ah	450	B13	3/60	L: 242 W: 175 H: 175	
P255N	L2	12V 55Ah	440	B13	3/60	L: 242 W: 175 H: 190	

AUTO
CONVENTIONAL

Catalogue code	Type	Capacity	Cold Cranking Amps (A)-18°C EN U10s≥7,5V	Base holddown	No. of rows Pieces on pallet	Dimensions (mm)	Layout
P260N	L2	12V 60Ah	480	B13	3/60	L: 242 W: 175 H: 190	
P260GN	L2	12V 60Ah	480	B13	3/60	L: 242 W: 175 H: 190	
PB364N	LB3	12V 64Ah	600	B13	3/48	L: 278 l: 175 H: 175	
P370N	L3	12V 70Ah	600	B13	3/48	L: 278 l: 175 H: 190	
P375N	L3	12V 75Ah	650	B13	3/48	L: 278 l: 175 H: 190	
P375GN	L3	12V 75Ah	650	B13	3/48	L: 278 l: 175 H: 190	
PB588N	LB5	12V 88Ah	780	B13	3/36	L: 353 l: 175 H: 175	
P588N	L5	12V 88Ah	680	B13	3/36	L: 353 W: 175 H: 190	
PM95	D31	12V 95Ah	650	B13	3/36	L: 305 W: 176 H: 222	
PM95G	D31	12V 95Ah	650	B13	3/36	L: 305 W: 176 H: 222	
P595N	L5	12V 95Ah	750	B13	3/36	L: 353 W: 175 H: 190	
P595GN	L5	12V 95Ah	750	B13	3/36	L: 353 W: 175 H: 190	





HEAVY DUTY

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18 SUPER HEAVY DUTY

21 HEAVY DUTY

HEAVY DUTY
SUPER HEAVY DUTY

CHAMPION HD-EFB

Applications: Euro 5/6 trucks and Buses (original equiped with EFB battery) or compatible for all vehicles with high energy requirements and high vibration resistance (Euro 3/4)



Special design of the boxes + fixing of the groups with an adhesive within the cell, both at the bottom and at the top

Premium quality based on manufacturer's experience for original EFB batteries as OEM

Technological project that ensures a number of micro-cycles of charging and discharging 10 * times higher compared to classic batteries

Maximum performance indicators in terms of water consumption

Polyethylene separator with very high mechanical strength, with a considerable thickness which significantly reduces the defects caused by short circuits

For hotel functions - technological project that ensures a long use / a slow discharge, having an additional capacity to supply the consumers during the stops

Maximum level of performance at maintaining the charge



SHD
TECHNOLOGY



RESISTANCE TO
EXTREME VIBRATION



MAINTENANCE
FREE



LEAKAGE
FREE



RESISTANCE TO
EXTREME TEMPERATURES



TRAILER



SEMI-TRAILER



HEAVYWEIGHT



BUS

Punched technology: high performance and long life Ca/Ca grid

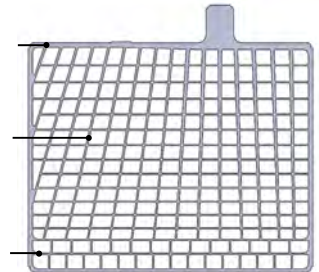
Benefits of the new grid:

- Very long life
- High cycling resistance
- Reduced self discharge rate on storage

Frame for stiffening and robustness

Network optimized for high start-up conductivity

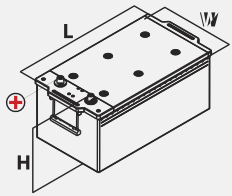
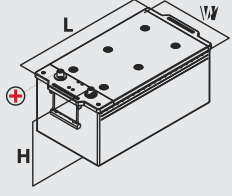
Additional reinforcement for greater durability



These grids are used especially for AGM and HD



HEAVY DUTY SUPER HEAVY DUTY

Catalogue code	Type	Capacity	Cold Cranking Amps (A)-18°C EN U10s≥7,5V	Base holddown	No. of rows Pieces on pallet	Dimensions (mm)	Layout
CHD220	M16	12V 220Ah	1200	B00	3/18	L: 518 l: 273 H: 240	
CHD230	M16	12V 230Ah	1200	B00	3/18	L: 518 l: 273 H: 240	



HEAVY DUTY
SUPER HEAVY DUTY

ENDURANCE HD



Applications: commercial vehicles, agricultural and construction equipment with intensive use (e.g., vibrations, deep discharge, additional electrical consumers, etc.)



Double lid with labyrinth system and flame arrestor – Sealed maintenance-free batteries
Punched positive and ConCast (Continuous Casting) technology negative grids
Polyethylene separators with high mechanical resistance
Very good vibration resistance due to the very tight group fixation in to the cell
Calcium-Calcium technology with very low water consumption



SHD
TECHNOLOGY



RESISTANCE TO
EXTREME VIBRATION



MAINTENANCE
FREE



LEAKAGE
FREE



RESISTANCE TO
EXTREME TEMPERATURES



TRAILER



SEMI-TRAILER



HEAVYWEIGHT



BUS

Catalogue code	Type	Capacity	Cold Cranking Amps (A) - 18°C EN U10s≥7,5V	Base holddown	No. of rows Pieces on pallet	Dimensions (mm)	Layout
EHD120	C13	12V 120Ah	900	B01	3/36	L: 345 l: 175 H: 238	
EHD130	MB14	12V 130Ah	850	B03	3/24	L: 513 l: 189 H: 217	
EHD150	MB14	12V 150Ah	900	B03	3/24	L: 513 l: 189 H: 217	
EHD180	M15	12V 180Ah	1100	B00	3/18	L: 514 l: 218 H: 218	
EHD200	M15	12V 200Ah	1150	B00	3/18	L: 513 l: 223 H: 218	
EHD220	M16	12V 220Ah	1100	B00	3/18	L: 518 l: 273 H: 240	
EHD235	M16	12V 235Ah	1200	B00	3/18	L: 518 l: 273 H: 236	

TERRA

Applications: Local area commercial vehicles, construction and agricultural equipment used in normal operating conditions of power and energy consumption



Standard range, designed for HD applications
Flat lid with M27 plugs
Punched positive and ConCast (Continuous Casting) technology negative grids, polyethylene envelope separators



HD
TECHNOLOGY



RESISTANCE TO
EXTREME VIBRATION



RESISTANCE TO
EXTREME TEMPERATURES



SEMI-TRAILER



HEAVYWEIGHT

Catalogue code	Type	Capacity	Cold Cranking Amps (A) - 18°C EN U10s≥7,5V	Base holddown	No. of rows Pieces on pallet	Dimensions (mm)	Layout
T105D	C13	12V 105Ah	700	B00	3/36	L: 345 l: 175 H: 238	
T105G	C13	12V 105Ah	700	B01	3/36	L: 345 l: 175 H: 238	
T105DT	C13	12V 105Ah	700	B01	3/36	L: 345 l: 175 H: 238	
T135G	MB14	12V 135Ah	800	B03	3/24	L: 511 l: 190 H: 216	
T180G	M15	12V 180Ah	1000	B00	3/18	L: 514 l: 218 H: 218	
T180DT	M15	12V 180Ah	1000	B00	3/18	L: 514 l: 218 H: 218	
T180GT	M15	12V 180Ah	1000	B00	3/18	L: 514 l: 218 H: 218	
T225G	M16	12V 225Ah	1200	B00	3/18	L: 518 l: 273 H: 240	





HOT CLIMATE

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24 START STOP

28 CONVENTIONAL

32 SUPER HEAVY DUTY

HOT CLIMATE
START/STOP

ENDURANCE AGM

Designed for hot climate

Applications: for vehicles with advanced Start-Stop technology, i.e., regenerative braking and others technologies for fuel saving



AGM (Absorbent Glass Mat) for advanced vehicles with Start/Stop system and regenerative braking

- Innovative AGM-VRLA technology with Absorbent Glass Mat separator
- Punched total frame positive and negative PbCa technology grids
- 3-4 times more cycle life compared to conventional batteries
- High charging acceptance for absorbing large surges of electrical energy generated via regenerative braking
- 100% leak-proof and spill-proof to 360° - Totally maintenance-free batteries
- High cold cranking amps, even in low temperature environments
- VRLA – pressure valve regulated lead acid batteries
- Long lifespan



START STOP



REGENERATIVE BRAKING



MAINTENANCE FREE



LEAKAGE FREE



OPTIONS



EXTREME USAGE



HOT CLIMATE

Catalogue code	Type	Capacity	Cold Cranking Amps (A) -18°C EN U10s≥7,5V	Base holddown	No. of rows Pieces on pallet	Dimensions (mm)	Layout
EHCAGM60	L2	12V 60Ah	640	B13	3/54	L: 242 l: 175 H: 190	
EHCAGM70	L3	12V 70Ah	720	B13	3/48	L: 278 l: 175 H: 190	
EHCAGM80	L4	12V 80Ah	800	B13	3/36	L: 315 l: 175 H: 190	
EHCAGM92	L5	12V 92Ah	850	B13	3/36	L: 353 l: 175 H: 190	

ENDURANCE EFB

Applications: Standard Start-Stop vehicles with high energy consumption (e.g., taxi)



EFB (Enhanced Flooded Batteries) pentru vehiculele cu sistem Start/Stop convențional

PbCa alloy expanded positive grids / ConCast negative grids (Continuous Casting technology)
 2 times more cycle life compared to conventional batteries
 Totally maintenance-free batteries
 Batteries with extended cycle life designed for vehicles with high energy demands.
 Designed for vehicles with advanced Start-Stop applications
 Higher charge acceptance for faster energy recovery while traveling



START STOP



MAINTENANCE FREE



LEAKAGE FREE



OPTIONS



EXTREME USAGE

Catalogue code	Type	Capacity	Cold Cranking Amps (A) - 18°C EN U10s≥7,5V	Base holddown	No. of rows Pieces on pallet	Dimensions (mm)	Layout
EHCF260	L2	12V 60Ah	560	B13	3/60	L: 242 l: 175 H: 190	
EHCFB365	LB3	12V 65Ah	630	B13	3/42	L: 315 l: 175 H: 190	
EHCF370	L3	12V 70Ah	680	B13	3/48	L: 278 l: 175 H: 175	
EHCFB475	LB4	12V 75Ah	720	B13	3/36	L: 353 l: 175 H: 190	
EHCF480	L4	12V 80Ah	760	B13	3/48	L: 278 l: 175 H: 190	
EHCF595	L5	12V 95Ah	800	B13	3/42	L: 315 l: 175 H: 175	

HOT CLIMATE
START/STOP

ENDURANCE JIS EFB

Designed for hot climate

Applications: vehicles with Start/Stop system and all conventional vehicles



EFB (Enhanced Flooded Batteries) for vehicles using the conventional Start/Stop system

EFB technology (Enhanced Flooded Battery)

The latest technology for primary equipment of standard Start/Stop vehicles

It supports twice as many cycles than all conventional batteries

High load capacity for faster energy recovery while on the move

Expanded grids of PbCa alloy

Tilting resistance up to 55°

It can sustain a large number of cycles

High operating time

No maintenance



START STOP



MAINTENANCE FREE



LEAKAGE FREE



OPTIONS



EXTREME USAGE



HOT CLIMATE



**HOT CLIMATE
START/STOP**

Catalogue code	Type	Capacity	Cold Cranking Amps (A) - 18°C EN U10s≥7.5V	Base holddown	No. of rows Pieces on pallet	Dimensions (mm)	Layout
EHCF65D23	D23	12V 65Ah	620	B01	3/60	L: 230 l: 172 H: 222	
EHCF72M10	D26	12V 72Ah	720	B01	3/48	L: 260 l: 170 H: 220	



HOT CLIMATE
CONVENTIONAL

ENDURANCE

Designed for hot climate

Applications: latest conventional cars with high level of equipment, optimal batteries for Petrol and Diesel vehicles (HDI, TDI)



Expanded positive grids, ConCast (Continuous Casting technology) negative grids
Sealed maintenance-free batteries equipped with double lid, magic eye and labyrinth system for gas recovery (except T044 - Kamina lid)



MAINTENANCE
FREE



LEAKAGE
FREE



OPTIONS



EXTREME
USAGE



LOGLIFE
GRID



HOT
CLIMATE

Catalogue code	Type	Capacity	Cold Cranking Amps (A) - 18°C EN U10s≥7,5V	Base holddown	No. of rows Pieces on pallet	Dimensions (mm)	Layout
EHC044	L0	12V 44Ah	320	B13	3/72	L: 175 l: 175 H: 190	
EHCB144	LB1	12V 44Ah	400	B13	3/60	L: 207 l: 175 H: 175	
EHC144G	L1R	12V 44Ah	400	B13	3/60	L: 207 l: 175 H: 190	
EHC152	L1	12V 52Ah	400	B13	3/60	L: 207 l: 175 H: 190	
EHC255	L2	12V 55Ah	440	B13	3/54	L: 207 l: 175 H: 190	
EHC255G	L2R	12V 55Ah	440	B13	3/54	L: 207 l: 175 H: 190	

**HOT CLIMATE
CONVENTIONAL**

Catalogue code	Type	Capacity	Cold Cranking Amps (A)-18°C EN U10S≥7,5V	Base holddown	No. of rows Pieces on pallet	Dimensions (mm)	Layout
EHC260	L2	12V 60Ah	480	B13	3/54	L: 207 l: 175 H: 190	
EHC260G	L2R	12V 60Ah	480	B13	3/54	L: 207 l: 175 H: 190	
EHC262	L2	12V 62Ah	480	B13	3/54	L: 242 l: 175 H: 190	
EHC262G	L2R	12V 62Ah	480	B13	3/54	L: 242 l: 175 H: 190	
EHC366	L3	12V 66Ah	520	B13	3/48	L: 278 l: 175 H: 190	
EHC370	L3	12V 70Ah	560	B13	3/48	L: 278 l: 175 H: 190	
EHC370G	L3R	12V 70Ah	560	B13	3/48	L: 278 l: 175 H: 190	
EHCB370	LB3	12V 70Ah	640	B13	3/48	L: 278 l: 175 H: 175	
EHC374	L3	12V 74Ah	640	B13	3/48	L: 278 l: 175 H: 190	
EHC374G	L3R	12V 74Ah	640	B13	3/48	L: 278 l: 175 H: 190	
EHC588	L5	12V 88Ah	640	B13	3/36	L: 353 W: 175 H: 190	
EHC5100	L5	12V 100Ah	840	B13	3/36	L: 353 W: 175 H: 190	
EHC6110	L6	12V 100Ah	920	B13	3/36	L: 394 W: 175 H: 190	

HOT CLIMATE
CONVENTIONAL

ENDURANCE JIS

Designed for hot climate

Applications: batteries designed for Asian cars, Petrol and Diesel, with high level of equipment



Expanded positive grids, ConCast
Continuous Casting technology) negative grids
Double lid with central handle
sealed maintenance-free batteries



LONGLIFE
GRID



MAINTENANCE
FREE



LEAKAGE
FREE



OPTIONS



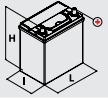
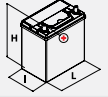
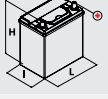
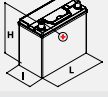
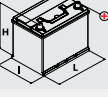
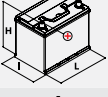
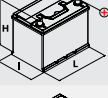
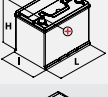
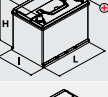
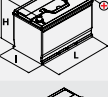

EXTREME
USAGE



HOT
CLIMATE



**HOT CLIMATE
CONVENTIONAL**

Catalogue code	Type	Capacity	Cold Cranking Amps (A) - 18°C EN U10s≥7,5V	Base holddown	No. of rows Pieces on pallet	Dimensions (mm)	Layout
EHC35NS40	NS40	12V 35Ah	280	B00	3/60	L: 187 l: 127 H: 227	
EHC35NS40G	NS40R	12V 35Ah	280	B00	3/60	L: 187 l: 127 H: 227	
EHC45NS60	NS60	12V 45Ah	360	B00	3/48	L: 238 l: 129 H: 227	
EHC45NS60G	NS60R	12V 45Ah	360	B00	3/48	L: 238 l: 129 H: 227	
EHC60D23	D23	12V 60Ah	480	B01	3/60	L: 232 l: 173 H: 225	
EHC60D23G	D23R	12V 60Ah	480	B01	3/60	L: 232 l: 173 H: 225	
EHC70M10	D26	12V 70Ah	560	B01	3/48	L: 261 l: 175 H: 220	
EHC70M10G	D26R	12V 70Ah	560	B01	3/48	L: 261 l: 175 H: 220	
EHC77M10	D26	12V 77Ah	560	B01	3/48	L: 261 l: 175 H: 220	
EHC91M11	D31	12V 91Ah	720	B01	3/36	L: 306 l: 173 H: 225	
EHC91M11G	D31R	12V 91Ah	720	B01	3/36	L: 306 l: 173 H: 225	

HOT CLIMATE
SUPER HEAVY DUTY

ENDURANCE HD-EFB (HC)

Designed for hot climate

Applications: Euro 5/6 trucks and Buses (original equipped with EFB battery) or compatible for all vehicles with high energy requirements and high vibration resistance (Euro 3/4)



Special design of the boxes + fixing of the groups with an adhesive within the cell, both at the bottom and at the top

Premium quality based on manufacturer's experience for original EFB batteries as OEM

Technological project that ensures a number of micro-cycles of charging and discharging 10 * times higher compared to classic batteries

Maximum performance indicators in terms of water consumption

Polyethylene separator with very high mechanical strength, with a considerable thickness which significantly reduces the defects caused by short circuits

For hotel functions - technological project that ensures a long use / a slow discharge, having an additional capacity to supply the consumers during the stops

Maximum level of performance at maintaining the charge



SHD
TECHNOLOGY



RESISTANCE TO
EXTREME VIBRATION



MAINTENANCE
FREE



LEAKAGE
FREE



RESISTANCE TO
EXTREME TEMPERATURES



TRAILER



SEMI-TRAILER



HEAVYWEIGHT



BUS



HOT
CLIMATE

Catalogue code	Type	Capacity	Cold Cranking Amps (A) - 18°C EN <small>U10s=7,5V</small>	Base holddown	No. of rows Pieces on pallet	Dimensions (mm)	Layout
EHCF220M16	C	12V 220Ah	1200	B00	3/18	L: 518 l: 274 H: 242	

ENDURANCE HD (HC)

Designed for hot climate

Applications: commercial vehicles, agricultural and construction equipment with intensive use (e.g., vibrations, deep discharge, additional electrical consumers, etc.)



Double lid with labyrinth system and flame arrestor – Sealed maintenance-free batteries
Punched positive and ConCast (Continuous Casting) technology negative grids
Polyethylene separators with high mechanical resistance
Very good vibration resistance due to the very tight group fixation in to the cell
Calcium-Calcium technology with very low water consumption



SHD
TECHNOLOGY



RESISTANCE TO
EXTREME VIBRATION



MAINTENANCE
FREE



LEAKAGE
FREE



HOT
CLIMATE



RESISTANCE TO
EXTREME TEMPERATURES



TRAILER



SEMI-TRAILER



HEAVYWEIGHT



BUS

Catalogue code	Type	Capacity	Cold Cranking Amps (A) -18°C EN U10s≥7,5V	Base holddown	No. of rows Pieces on pallet	Dimensions (mm)	Layout
EHC120MB14	A	12V 120Ah	760	B03	3/24	L: 513 l: 188 H: 223	
EHC140MB14	A	12V 140Ah	760	B03	3/24	L: 513 l: 189 H: 223	
EHC155M15	B	12V 155Ah	840	B00	3/18	L: 513 l: 222 H: 223	
EHC170M15	B	12V 170Ah	920	B00	3/18	L: 513 l: 223 H: 223	
EHC180M15	B	12V 180Ah	1000	B00	3/18	L: 513 l: 223 H: 223	
EHC200M16	C	12V 200Ah	1080	B00	3/18	L: 518 l: 274 H: 242	
EHC225M16	C	12V 225Ah	1200	B00	3/18	L: 518 l: 274 H: 242	
EHC240M16	C	12V 240Ah	1200	B00	3/18	L: 518 l: 274 H: 242	





SPECIAL BATTERIES

—

36 LITHIUM

37 STATIONARY

38 SEMI TRACTION

39 RAILWAY LINE

40 MILITARY

41 TRACTION

42 MOTORCYCLE

45 CULTIVATOR

SPECIAL BATTERIES

LITHIUM

LITHIUM

Applications: photovoltaic, ideal for energy storage



Recommended for photovoltaic applications, ideal for energy storage

It is provided with the following features: electronic display, communication interface RS485, Rs232, CAN and fastening system in 19" cabinets

It features a BMS battery management device that monitors and provides protection against the following: overcharge, overdischarge and overheating

The BMS system displays the battery statuses: SHOCK, SOH, cell voltages, charge/discharge currents, temperature

LiFePO4 chemistry - Provides more operational safety



PHOTOVOLTAIC

Catalogue code	Code	Capacity	Dimensions (mm)
RBTL100-24	Monobloc	LITIU 25V 100Ah	L: 522 l: 240 H: 218
RBTM100-24	Rack 19"	LITIU 25V 100Ah	L: 290 l: 442 H: 178
RBTM50-48	Rack 19"	LITIU 51V 50Ah	L: 440 l: 442 H: 134
RBTM100-48	Rack 19"	LITIU 51V 100Ah	L: 390 l: 442 H: 222



STATIONARY

Applications: security and alarm systems, UPS, emergency lighting, power tools and toys, photovoltaic systems, alternative energy systems, floor washing machines, electric scooters, etc.



- AGM and GEL technology
- ABS housings and covers
- Anti-explosion safety valve
- Exceptional recovery performance after deep discharge
- Low self-discharge



PHOTOVOLTAIC



UPS
ALARM



MOTOR
SCOOTER



CAR
WASHER

Catalogue code	Length (mm)	Width (mm)	Height (mm)	Installation diagram / Terminal type
HGL6V-5Ah	70	47	107	F1
HGL6V-10Ah	151	50	101	F1
HGL12V-4Ah	90	70	107	F1
HGL12V-5Ah F1	90	70	107	F1
HGL12V-5Ah F2	90	70	107	F2
HGL12V-7Ah F1	151	65	101	F1
HGL12V-7Ah F2	151	65	101	F2
HGL12V-7.2Ah F2	151	65	101	F2
HGL12V-9Ah	151	65	101	F2
HGL12V-12Ah	151	99	102	F2
HGL12V-18Ah	181	77	167	T
HGL12V-24Ah	165	125	179	M
HGL12V-26Ah	166	175	126	M

Catalogue code	Length (mm)	Width (mm)	Height (mm)	Installation diagram / Terminal type
DC12V-35Ah	196	131	167	M
DCC(Gel)12V-35Ah	196	131	167	M
DC12V-40Ah	199	166	173	M
DCC(Gel)12V-40Ah	199	166	173	M
DC12V-50Ah	230	138	212	M
DC12V-55Ah	230	138	212	M
DCC(Gel)12V-55Ah	230	138	212	M
DC12V-65Ah	350	165	175	M
DCC(Gel)12V-65Ah	350	165	175	M
DC12V-70Ah	350	165	175	M
DC12V-75Ah	260	169	215	M
DC12V-85Ah	260	170	215	M
DCC(Gel)12V-85Ah	260	170	215	M
DC12V-100Ah	307	169	215	M
DCC(Gel)12V-100Ah	307	169	215	M
DC12V-150Ah	484	171	241	M
DCC(Gel)12V-150Ah	484	171	241	M
DC12V-200Ah	532	206	222	M
DCC(Gel)12V-200Ah	532	206	222	M
DC12V-240Ah	520	269	209	M
DCC(Gel)12V-240Ah	520	264	209	M
DC12V-260Ah	520	268	226	M
DC6V-224Ah	260	180	251	M
DC6V-250Ah	262	181	272	M
DC6V-330Ah	295	178	365	M
DC6V-420Ah	295	178	424	M
6-DZF-12Ah	151	99	101	M
6-DZF-20Ah	181	77	172	M

SPECIAL BATTERIES

SEMI TRACTION

TEMPEST

Applications: Power supply for boats, motor yachts, caravans, motor homes, lighting applications, floor cleaning machines, scrubbers, lifting machines, electric wheelchairs, signal installations, mobile power supply and other special applications



Kamina black lid with flame arrestor for 50 Ah, 60 Ah, 72 Ah, 100 Ah and 105 Ah and flat lid for the other items of the range

Punched positive and ConCast (Continuous Casting) technology negative grids

Glass mat fibre polyethylene separators with very good vibration resistance, this feature providing longer life

Thick plates, special designed for permanent and long-lasting electrical energy supply applications, also high resistance for great number of deep discharge cycles

Special designed for applications that required permanent or lasting electrical energy



THICK PLATES



SLOW DISCHARGE



CAMPING-CAR



YARD LIGHTS



CAR WASHER

Catalogue code	Type	Capacity (20h)	Capacity (5h)	Base holddown	No. of rows Pieces on pallet	Dimensions (mm)	Layout
STL1550	L1	12V 50Ah	12V 40Ah	B13	3/60	L: 207 l: 175 H: 190	
STL2560	L2	12V 60Ah	12V 48Ah	B13	3'60	L: 242 l: 175 H: 190	
STL3572	L3	12V 72Ah	12V 58Ah	B13	3/48	L: 278 l: 175 H: 190	
STL5600	L5	12V 100Ah	12V 80Ah	B13	3/36	L: 353 l: 175 H: 190	
STM1605	D31	12V 105Ah	12V 84Ah	B01	3/36	L: 305 l: 177 H: 222	
STC3620	C13	12V 120Ah	12V 96Ah	B00	3/36	L: 345 l: 175 H: 238	
STMB4654	MB14	12V 154Ah	12V 124Ah	B03	3/24	L: 511 l: 190 H: 216	
STM5670	M15	12V 170Ah	12V 137Ah	B00	3/18	L: 514 l: 218 H: 218	
STM6725	M16	12V 225Ah	12V 181Ah	B00	3/18	L: 518 l: 273 H: 240	

TERRA 2S

Applications: battery for starting Diesel locomotives



2 polypropylene unibody batteries in a metal case
Punched positive grids, negative grids with PbCa alloy frame
Normal water consumption



HD TECHNOLOGY



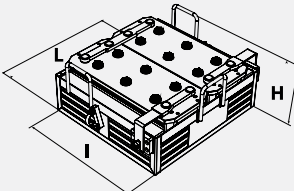
RESISTANCE TO EXTREME VIBRATION



RESISTANCE TO EXTREME TEMPERATURES



LOCOMOTIVE

Catalogue code	Code	Cold Cranking Amps (A)-18°C EN U10s≥7,5V	Gauge Code EN 60095	Dimensions (mm)	Layout	Installation diagram / Terminal type	Fixing
TERRA 12V 320Ah	820.454.128	1280 (UIC854R)	-	L: 654 l: 565 H: 260		special assembly/ special	-



SPECIAL BATTERIES

MILITARY

TERRA TANC

Applications: special battery for tanks



Punched positive grids, negative grids with PbCa alloy frame
 Polyethylene separators - high level of resistance to vibrations due to the wedging method and the stiffening adhesive
 Low water consumption



HD TECHNOLOGY



RESISTANCE TO EXTREME VIBRATION



RESISTANCE TO EXTREME TEMPERATURES



TANK

Catalogue code	Code	Cold Cranking Amps (A) - 18°C EN U10s≥7,5V	Gauge Code EN 60095	Dimensions (mm)	Layout	Installation diagram / Terminal type	Fixing
TERRA 12V 143Ah	643.844.100	1000	Tanc	L: 575 l: 244 H: 249		special assembly/ special	-

NATO

Applications: special battery for tanks and armoured vehicles



High level of resistance and reliability
 Long lifetime
 Low water consumption



HD TECHNOLOGY



RESISTANCE TO EXTREME VIBRATION



RESISTANCE TO EXTREME TEMPERATURES



TANK

Catalogue code	Code	Cold Cranking Amps (A) - 18°C EN U10s≥7,5V	Gauge Code EN 60095	Dimensions (mm)	Layout	Installation diagram / Terminal type	Fixing
NATO 12V 110Ah	610.844.080	800	Tanc	L: 286 l: 260 H: 226		special assembly/ special	-
NATO 12V 125Ah	610.844.080	800	Tanc	L: 286 l: 260 H: 226		special assembly/ special	-

FORTE

Applications: electric power supply for electrocars, electric forklifts, pallet trucks



Tubular positive plates, paste negative plates

Polyethylene separators

Batteries made by stringing the elements according to the voltage requested by the beneficiary

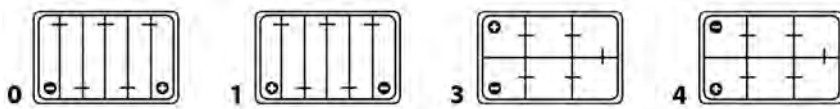


FORKLIFT

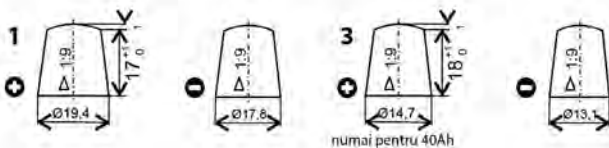


PALLET TRUCK

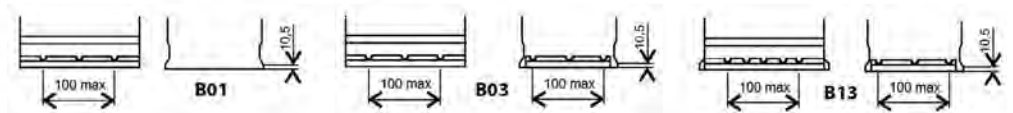
Catalogue code	Code	Cold Cranking Amps (A) - 18°C EN U10s≥7,5V	Gauge Code EN 60095	Dimensions (mm)	Layout	Installation diagram / Terminal type	Fixing
FORTE 2V 250Ah	2 PzS 250	250	2	L: 198 l: 47 H: 595		-	-
FORTE 3V 270Ah	3 PzS 270	270	2	L: 198 l: 65 H: 505		-	-
FORTE 2V 750Ah	6 PzS 750	750	2	L: 198 l: 119 H: 595		-	-



Terminale



Fixare **B00**
Fixare **Fără prindere jos**



SPECIAL BATTERIES
MOTORCYCLE

START GEL

Applications: motorcycles



Maintenance free battery in GEL technology: flame arrestor, higher starting current than AGM batteries
The battery is ready to use
They can be used in any position



MOTORCYCLE



MOTOR SCOOTER



ATV



SNOWMOBILE

Catalogue code	Code	Cold Cranking Amps (A) - 18° C EN U10s≥7,5V	Gauge Code EN 60095	Dimensions (mm)	Layout	Installation diagram / Terminal type	Fixing
START GEL 12V 7Ah	RBG7	100	2	L: 150 l: 86 H: 94		-	B00
START GEL 12V 7Ah	RMG7L-BS-C	120	2	L: 113 l: 69 H: 130		-	B00
START GEL 12V 9Ah	RMG9-BS-C	140	2	L: 150 l: 86 H: 130		-	B00
START GEL 12V 12Ah	RMG12-BS-C	180	2	L: 150 l: 86 H: 130		-	B00
START GEL 12V 14Ah	RMG14-BS-C	200	2	L: 150 l: 86 H: 145		-	B00



START AGM

Applications: motorcycles



Maintenance free battery: flame arrestor, AGM (absorbed glass material) separator, higher starting current than conventional batteries

The battery is dry charged with acid separated in bottles

The battery and the bottle are packed in a cardboard box

They can be used in any position



MOTORCYCLE



MOTOR SCOOTER



ATV



SNOWMOBILE

Catalogue code	Code	Cold Cranking Amps (A) - 18°C EN U10sz7,5V	Dimensions (mm)	Layout	Fixing
START AGM 12V 4Ah	RBX5L-BS	40	L: 114 l: 70 H: 105		B00
START AGM 12V 6Ah	RBX7L-BS	60	L: 114 l: 70 H: 130		B00
START AGM 12V 6Ah	RBX7A-BS	60	L: 150 l: 87 H: 93		B00
START AGM 12V 8Ah	RBX9-BS	80	L: 150 l: 87 H: 105		B00
START AGM 12V 10Ah	RBX12-BS	100	L: 151 l: 87 H: 130		B00
START AGM 12V 12Ah	RBX14-BS	120	L: 151 l: 87 H: 146		B00
START AGM 12V 14Ah	RBX16-BS	140	L: 151 l: 87 H: 158		B00
START AGM 12V 18Ah	RBX20L-BS	180	L: 175 l: 87 H: 155		B00

SPECIAL BATTERIES
MOTORCYCLE

START

Applications: motorcycles



Conventional battery with central degassing
The battery is dry charged with acid separated in bottles
The battery and the bottle are packed in a cardboard box



MOTORCYCLE



MOTOR SCOOTER



ATV



SNOWMOBILE

Catalogue code	Code	Cold Cranking Amps (A) - 18°C EN U10s≥7,5V	Dimensions (mm)	Layout	Fixing
START 12V 4AH	RB4L-B	40	L: 120 l: 70 H: 92		B00
START 12V 8AH	RB7L-B	80	L: 137 l: 75 H: 134		B00
START 12V 9AH	12N9-4B-1	90	L: 135 l: 75 H: 138		B00
START 12V 9AH	RB9L-B	90	L: 135 l: 75 H: 138		B00
START 12V 11AH	RB10L-A2	110	L: 134 l: 90 H: 145		B00
START 12V 12AH	RB12AL-A	120	L: 134 l: 80 H: 160		B00
START 12V 12AH	RB12A-A	120	L: 134 l: 80 H: 160		B00
START 12V 14AH	RB14L-A2	140	L: 134 l: 89 H: 164		B00
START 12V 14AH	RB14-A2	140	L: 134 l: 89 H: 164		B00
START 12V 16AH	RB16AL-A2	40	L: 205 l: 70 H: 162		B00

GREEN

Applications: chainsaws, lawn mowers, golf carts, personal boats, snow blowers, portable generators/ pumps, starting small internal combustion engines and other special applications



Double lid with flame arrestor and status indicator

Ergonomic central handle, L-type terminals

Cast grids of PbCa alloy

Robust battery box

Maintenance-free battery, delivered charged with electrolyte, in two versions (right +, left +)



LONGLIFE
GRID



MAINTENANCE
FREE



LEAKAGE
FREE



LAWN
MOWER



JET SKI



GARDEN
TRACTOR

Catalogue code	Code	Cold Cranking Amps (A) -18°C EN U10s≥7,5V	Gauge Code EN 60095	Dimensions (mm)	Layout	Installation diagram / Terminal type	Fixing
GREEN 12V 28Ah	528.A00.023	28	230	L: 197 l: 129 H: 190		L	B00
GREEN 12V 28Ah	528.A01.023	28	230	L: 197 l: 129 H: 190		L	B00



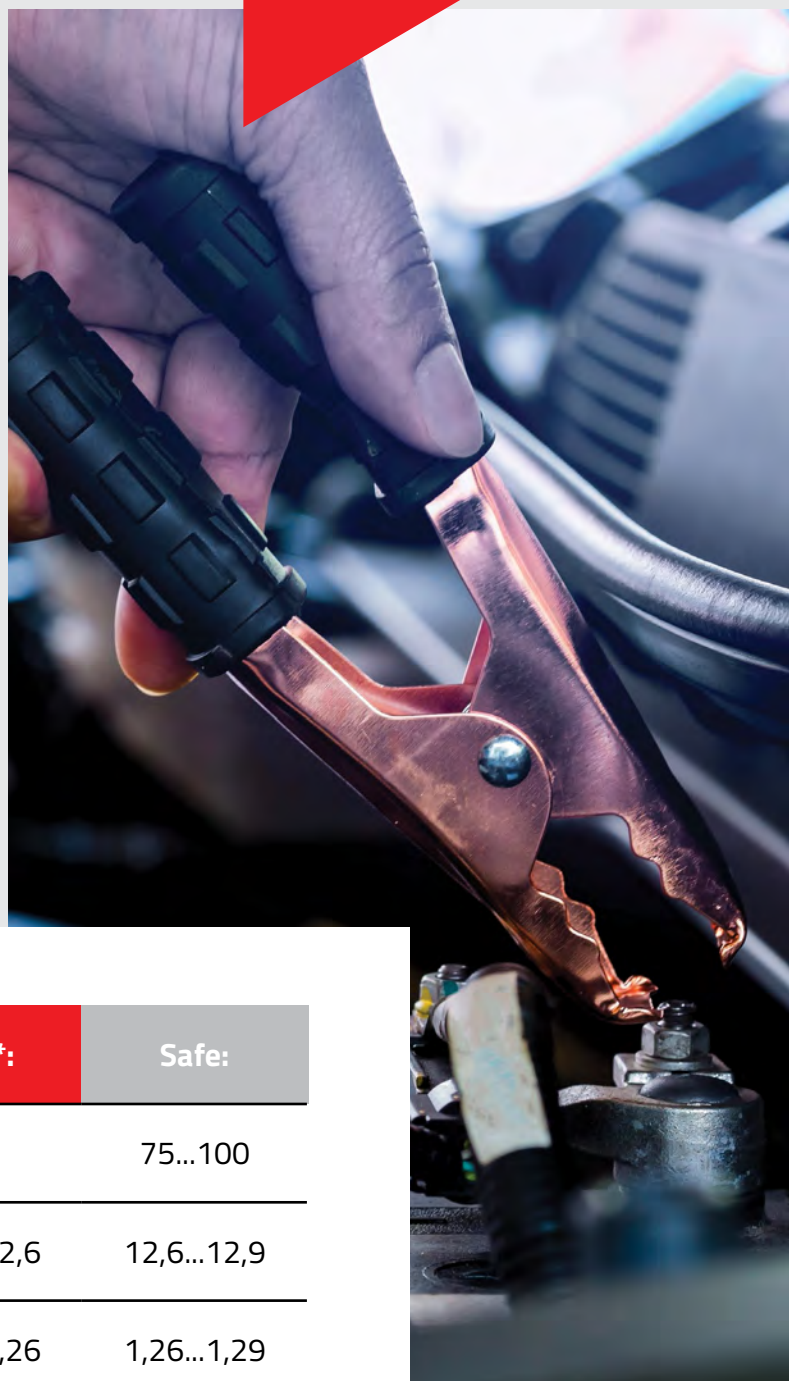
DIAGNOSTIC

Vizual inspection:

- Check the battery terminals;
- Check the battery Lid and box integrity (no external damages);
- Check the Hydrometer (in case that the battery have one);

Measurements:

- Charging voltage value of the alternator (with DC voltmeter);
- Starting current consumption (with DC clamp meter);
- Engine starting parameters, with specific devices;



	Not safe*:	Alert*:	Safe:
State of charge (%)	0...75	75	75...100
Open Circuit Voltage (V)	11...12,4	12,5...12,6	12,6...12,9
Acid specific gravity (g/cm3)	1,1...1,24	1,25...1,26	1,26...1,29

* If the battery presents lower values, it must be recharged to ensure good functionality!



CAUTION

The battery diagnoses have to be performed only by specialized battery shops.

STORAGE AND CHARGING INSTRUCTIONS

1. DELIVERY

ROMBAT guarantee the next battery parameters at delivery:

- Open Circuit Voltage (U): $\geq 12,7$ V (at 25°C)
- Acid specific gravity: = 1.28+/-0.01 g/c3 (at 25°C)
- CCA value on the label:
I EN (A) measured at T = - 18° C, with fully charged batteries (after 3 consecutive cycles) according EN 50342.

For a life time prolongation of the batteries we recommend some basic storage and recharging instructions.

2. STORAGE

The batteries should be stored in vented, closed and dry rooms, at 5 to 25°C , 80% humidity level, far from the sunshine action and heat sources. Respecting all of this conditions the batteries can be stored without charging for 6 months before use. For a better storage management, we recommend to respect the FIFO.

3. RECHARGING

The battery state of charge have to be periodically monitored in case of long storage time. The Open circuit voltage value should not decrease under 12.5V

In case that the charging is needed we recommend respecting the next instructions:

- Recharge the batteries using a DC battery rectifier that assure an output voltage value between 13.8V and 16.5V at 25°C, for Flooded and EFB batteries and between 13,8V and 14.8V at 25°C for AGM batteries – the current value should be between 4A and 25A..
- The recharging have to be performed by setting a current value 5% - 10% of the battery capacity. Example, for a 60Ah battery the charging current is 3A-6A).
- The charging have to be performed until the voltage value reach the 15.8-16.5V (at 25°C) and stay stable for 2-3h (on charging).

CAUTION!

For the AGM batteries, the charging voltage value at the end of charge should be between 14.4-14.8V and not higher.

The charging time depends on the battery discharge state. For deep discharged batteries the time can be between 24-72h.

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