



**HIGH HEAT
SERIES**



AUTOMOTIVE BATTERY CATALOGUE

SOURCE OF POWER BY MONBAT



ABOUT MONBAT GROUP

THE BATTERY SEGMENT

- 1 **MONBAT AD** MONTANA, BULGARIA
- 2 **START AD** DOBRICH, BULGARIA
- 3 **TUNISIAN COMPANY OF BATTERIES NOUR** ZRIBA, ZAGHOUAN, TUNISIA
- 4 **EAS BATTERES GMBH** NORDHAUSEN, GERMANY

RECYCLED INDUSTRIAL MATERIALS

- 5 **MONBAT RECYCLING EAD** MONTANA, BULGARIA
- 6 **SG MONBAT RECYCLING SRL** ILFOV, ROMANIA
- 7 **MONBAT PLC DOO** INDIJA, SERBIA
- 8 **PIOMBIFERA ITALIANA S.P.A.** LA SPECIA, ITALY
- 9 **COMPANY OF NOUR RECYCLING** ZRIBA, ZAGHOUAN, TUNISIA
- 10 **STC S.R.L.** MESAGNE, ITALY

OTHER ACTIVITIES

- 11 **MONBAT TRADING OOD** SOFIA, BULGARIA
- 12 **YU MONBAT DOO** YAGODINA, SERBIA
- 13 **MONBAT ROMANIA SRL** BUCHAREST, ROMANIA
- 14 **MONBAT SPED EOOD** SOFIA, BULGARIA
- 15 **A.R.T.MONBAT AD** SOFIA, BULGARIA



THE GROUP

MONBAT GROUP is fast-growing company which offers lead-acid batteries, Lithium-ion batteries and reserved power solutions for large assortment of applications. MONBAT Group operates three factories for lead-acid batteries located in Bulgaria and Tunisia, and forth production plant for Lithium-ion batteries in Germany.

Another strong activity of MONBAT Group is recycling of industrial materials and the division is currently operating five recycling plants for used lead-acid batteries located in Bulgaria, Romania, Serbia, Italy and Tunisia along with high tech engineering company STC in Italy.

THE COMPANY

The product of our company have been present on international market since 1959. The wide product range includes starter batteries, leisure & marine, solar, stationary VRLA and special batteries for military applications. Our production facilities are equipped with state-of-the art equipment and machines using the latest technologies, granting high quality products and reaching an annual production capacity of over 5M batteries.

EUROKRAFT AGM SERIES START/STOP



EUROKRAFT START/STOP AGM series with special absorbent glass mat and superb performance, suitable for the most demanding modern vehicles and their electrical systems. The series offers excellent endurance, ideal for advanced start-stop systems where the battery needs to be charged and discharged repeatedly while keeping its performance.

LIFE EXPECTANCY	START/STOP SYSTEMS	EQUIPMENT LEVEL	CYCLING CAPABILITY	CCA CAPABILITY	WATER CONSUMPTION
★★★★★	HIGHLY RECOMMENDED	★★★★★	★★★★★	★★★★★	EXTREMELY LOW

EUROKRAFT EFB SERIES START/STOP



EUROKRAFT START/STOP EFB series is perfectly suited for light vehicles with standard Start/Stop systems which operate at a partial state of charge and do not require the deep-cycling characteristics of an AGM battery. Our technology with improved casted plates and the addition of a polyester fleece scrim mesh to the PAM surface greatly improves the endurance.

LIFE EXPECTANCY	START/STOP SYSTEMS	EQUIPMENT LEVEL	CYCLING CAPABILITY	CCA CAPABILITY	WATER CONSUMPTION
★★★★★	RECOMMENDED	★★★★★	★★★★★	★★★★★	VERY LOW

EUROKRAFT PLATINUM SERIES



EUROKRAFT PLATINUM series is designed & developed for highly equipped vehicles with the highest power demands. The carbon technology additive in NAM provides exceptional dynamic charge acceptance. Additional +30% enhanced starting power for top level performance.

LIFE EXPECTANCY	START/STOP SYSTEMS	EQUIPMENT LEVEL	CYCLING CAPABILITY	CCA CAPABILITY	WATER CONSUMPTION
★★★★★	NOT RECOMMENDED	★★★★★	★★★★★	★★★★★	VERY LOW

EUROKRAFT GOLD SERIES



EUROKRAFT GOLD DIN and JIS series provides enhanced performance for the latest equipment and high electrical requirements. Our improved punched grid construction provides high starting power and endurance suitable for all classes of Din and Asian type light vehicles. Available option for high temperature climates.

LIFE EXPECTANCY	START/STOP SYSTEMS	EQUIPMENT LEVEL	CYCLING CAPABILITY	CCA CAPABILITY	WATER CONSUMPTION
★★★★★	NOT RECOMMENDED	★★★★★	★★★★★	★★★★★	VERY LOW

ETN code	C20 (Ah)	CCA A	BOX	Dimensions, mm			Layout	Terminal	Hold Down
				L	W	H			
EUROKRAFT AGM START-STOP SERIES									
AGM L2 56001	60	640	L2	242	175	190	0	1	B13
AGM L3 57001	70	760	L3	278	175	190	0	1	B13
AGM L4 58001	80	840	L4	310	175	190	0	1	B13
AGM L5 59501	95	860	L5	353	175	190	0	1	B13
AGM L6 60501	105	950	L6	393	175	190	0	1	B13
EUROKRAFT EFB START-STOP SERIES									
EFB 56002 DIN	60	600	L2	242	175	190	0	1	B13
EFB 90D23L JIS	65	560	D23	230	170	220	0	1	B1
EFB 90D23R JIS	65	560	D23	230	170	220	1	1	B1
EFB 57002 DIN	70	700	L3	278	175	190	0	1	B13
EFB 100D26L JIS	72	680	D26	260	170	220	0	1	B1
EFB 58002 DIN	80	780	L4	310	175	190	0	1	B13
EFB 115D31L JIS	85	740	D31	304	173	220	0	1	B1
EFB 59002 DIN	90	860	L5	353	175	190	0	1	B13
EUROKRAFT PLATINUM SERIES									
MF 55B19L	45	330	B19	197	128	220	0	3	B1
MF 55B19R	45	330	B19	197	128	220	1	3	B1
MF 75B24L	50	400	B24	237	128	220	0	3	B0
MF 75B24R	50	400	B24	237	128	220	1	3	B0
MF 55612	56	560	L1	207	175	190	0	1	B13
MF 56378	63	600	L2	242	175	190	0	1	B13
MF 56619	66	660	L2	242	175	190	0	1	B13
MF 75D26L	65	600	D23	230	170	220	0	1	B1
MF 75D23R	65	600	D23	230	170	220	1	1	B1
MF 57583	75	720	L3	278	175	190	0	1	B13
MF 58043	80	760	L3	278	175	190	0	1	B13
MF 95D26L	75	700	D26	260	170	220	0	1	B1
MF 95D26R	75	700	D26	260	170	220	1	1	B1
MF 59046	90	820	L4	310	175	190	0	1	B13
MF 135D31L	100	820	D31	304	173	220	0	1	B1
MF 135D31R	100	820	D31	304	173	220	1	1	B1
MF 60044	100	920	L5	353	175	190	0	1	B13

TEMPERATURE RANGE

Temperature	Condition	Battery Life Expectancy
-10°/ -25°C	Extreme Cold	> 42 months
+5°/ -10°C	Cold	> 52 months
+20°/ +5°C	Mild	> 42 months
+20°/ +5°C	Heat	> 36 months
+35°/ +20°C	High Heat	> 26 months
+75°/ +50°C	Extreme Heat	> 18 months*

*Only High Heat Batteries - DIN and JIS

ETN code	C20 (Ah)	CCA A	BOX	Dimensions, mm			Layout	Terminal	Hold Down
				L	W	H			
EUROKRAFT GOLD SERIES									
MF 40B19L	35	250	B19	197	127	220	0	3	B0
MF 40B19R	35	250	B19	197	127	220	1	3	B0
MF 40B19FL	35	250	B19	197	127	220	0	3	B1
MF 54459	44	360	L1	207	175	190	0	1	B13
MF 50B24L	45	330	B24	237	127	220	0	3	B0
MF 50B24R	45	330	B24	237	127	220	1	3	B0
MF 50B24LS	45	330	B24	237	127	220	0	1	B0
MF 50B24RS	45	330	B24	237	127	220	1	1	B0
MF 55027	50	420	L1	207	175	190	0	1	B13
MF 48D26L	50	400	D26	260	172	220	0	1	B1
MF 48D26R	50	400	D26	260	172	220	1	1	B1
MF 55559	55	480	L2	242	175	190	0	1	B13
MF 55565	55	480	L2	242	175	190	1	1	B13
MF 55D23L	60	480	D23	230	170	220	0	1	B1
MF 55D23R	60	480	D23	230	170	220	1	1	B1
MF 55D26L	60	480	D26	260	172	220	0	1	B1
MF 55D26R	60	480	D26	260	172	220	1	1	B1
MF 56219	62	540	L2	242	175	190	0	1	B13
MF 56203	62	540	L2	242	175	190	1	1	B13
MF 75D23L	65	500	D23	230	172	220	0	1	B1
MF 75D23R	65	500	D23	230	172	220	1	1	B1
MF 56638	66	580	L3	278	175	190	0	1	B13
MF 80D26L	70	500	D26	260	172	220	0	1	B1
MF 80D26R	70	500	D26	260	172	220	1	1	B1
MF 57220	72	640	L3	278	175	190	0	1	B13
MF 57412	75	680	L4	278	175	190	0	1	B13
MF 75D31L	75	560	D31	304	172	220	0	1	B1
MF 75D31R	75	560	D31	304	172	220	1	1	B1
MF 58043	80	720	L4	315	174	190	0	1	B13
MF 95D31L	80	600	D31	304	172	220	0	1	B1
MF 95D31R	80	600	D31	304	172	220	1	1	B1
MF 58827	88	750	L5	353	175	190	0	1	B13
MF 105D31L	90	650	D31	304	172	220	0	1	B1
MF 105D31R	90	650	D31	304	172	220	1	1	B1
MF 115D31L	95	780	D31	304	172	220	0	1	B1
MF 115D31R	95	780	D31	304	172	220	1	1	B1
MF 60038	100	840	L5	354	174	190	0	1	B13
N100L	100	700	E41/N100	413	175	220	0	1	B0
N100	100	700	E41/N100	413	175	220	1	1	B0

EUROKRAFT AGM SERIES START/STOP



EUROKRAFT HD AGM series provides superb performance, suitable for the most demanding modern commercial and heavy-duty vehicles and their electrical systems. MONBAT AGM offers much improved vibration resistance, endurance, very high reliability and safety.

VALUE FOR CUSTOMER	EQUIPMENT LEVEL	VIBRATION RESISTANCE	CYCLING CAPABILITY	CCA CAPABILITY	WATER CONSUMPTION
★★★★★	★★★★★	★★★★	★★★★★	★★★★★	EXTREMELY LOW

EUROKRAFT EFB+C SERIES START/STOP



EUROKRAFT HD EFB+C series is perfectly suited for heavy vehicles which require deep-cycling characteristics. Our technology offers improved casted plates fixed with hot melt resin as well as added polyester scrim and glass fleece to the plates. These result in an excellent vibration resistance and cyclability.

VALUE FOR CUSTOMER	EQUIPMENT LEVEL	VIBRATION RESISTANCE	CYCLING CAPABILITY	CCA CAPABILITY	WATER CONSUMPTION
★★★★★	★★★★★	★★★★	★★★★★	★★★★★	VERY LOW

EUROKRAFT SHD SERIES



EUROKRAFT SHD series provides excellent power for heavy-duty vehicles with increased cycling requirements thanks to the added glass mat separator. The range provides low rate of self discharge, excellent endurance, reliability and service life.

VALUE FOR CUSTOMER	EQUIPMENT LEVEL	VIBRATION RESISTANCE	CYCLING CAPABILITY	CCA CAPABILITY	WATER CONSUMPTION
★★★★	★★★★	★★★	★★★★	★★★★	LOW

HEAVY-DUTY VEHICLES

ETN code	C20 (Ah)	CCA A	BOX	Dimensions, mm			Layout	Terminal	Hold Down
				L	W	H			
EUROKRAFT AGM SERIES START STOP									
AGM 67001	170	1100	B	513	223	223	3	1	B0
AGM 72001	220	1400	C	514	274	242	3	1	B0
AGM 72002	220	1400	C	514	274	242	4	1	B0
EUROKRAFT EFB+C SERIES START STOP									
EFB 68502	185	1100	B	513	223	223	3	1	B0
EFB 73502	235	1250	C	514	274	242	3	1	B0
EFB 73503	235	1250	C	514	274	242	4	1	B0
EUROKRAFT SHD SERIES									
SHD 61002	110	900	GR31	336	173	235	9	1	B0
SHD 61003	110	900	GR31	336	173	235	9	8	B0
SHD N120	120	800	F51	513	189	220	4	1	B0
SHD 62545	120	800	A	513	189	220	3	1	B0
SHD 64020	140	900	A	513	189	220	3	1	B0
SHD N150	150	900	G51	513	223	223	4	1	B0
SHD 67043	170	1000	B	513	223	223	3	1	B0
SHD 68032	180	1100	B	513	223	223	3	1	B0
SHD N200	200	1150	H52	514	276	242	4	1	B0
SHD 70027	200	1150	C	514	276	242	3	1	B0
SHD 72512	225	1250	C	514	276	242	3	1	B0
All batteries are available with R+									

All batteries are available with R+

BATTERY SELF-DISCHARGE

All lead-acid batteries suffer from self-discharge. The place of this self-discharge depends on the storage conditions and technology. Generally, the cooler the storage conditions, the slower the self-discharge. Calcium (Ca)-Calcium (Ca) batteries, such as conventional flooded (maintenance-free) car and truck batteries, have a lower self-discharge than Antimony (Sb) Calcium (Ca) conventional batteries (Hybrid) like some marine/leisure and truck batteries with filling plugs for water top-up.

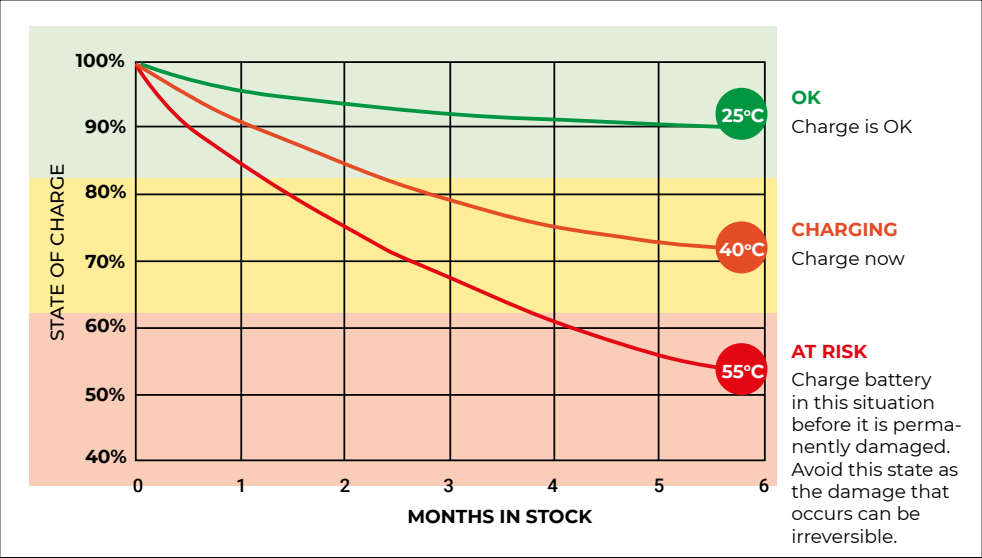
This is important for both distributors and battery users. Distributors have to make sure that the FIFO (first-in, first-out) rule is applied for stock management. At the same time, the voltage of the batteries should be regularly controlled: when the voltage drops to 12.5V, the battery needs to be recharged to avoid shortening the battery's lifespan and introducing performance problems.

VOLT	SoC
12.75V	100%
12.60V	90%
12.48V	80%
12.36V	70%
12.24V	60%
12.12V	50%
12.00V	40%
11.88V	30%
11.76V	20%
11.64V	10%

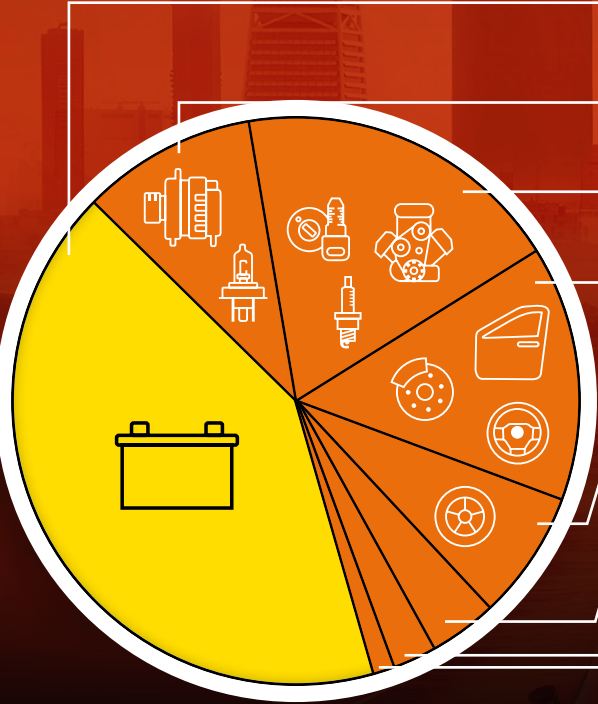
12.40V75%

RECHARGING

Charge - Battery below 75% SoC

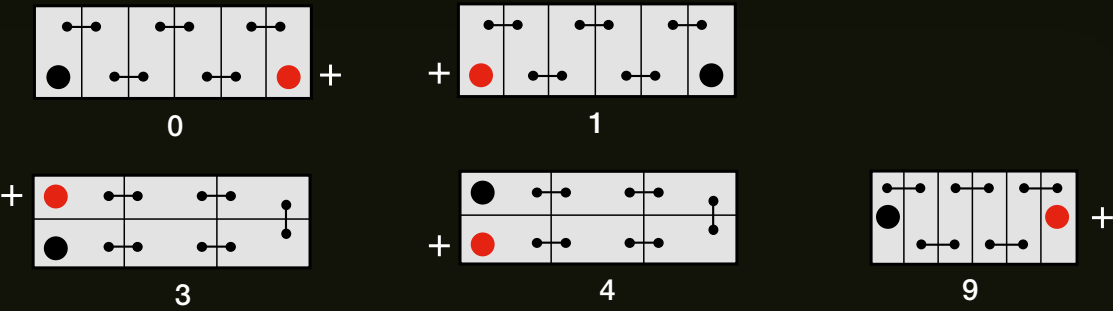


Most common cause of breakdown	
42 %	Battery
11 %	Other Electrical: Alternator, Starter, Lighting
17 %	Engine Management (Injection, Ignition, Sensors)
15 %	Bodywork, Steering, Brakes, Chassis, Drive, etc.
7 %	Tyres
4 %	Fuel System
2 %	Cooling, Heating, Air
1 %	Exhaust system, Particulate filter, Catalyst

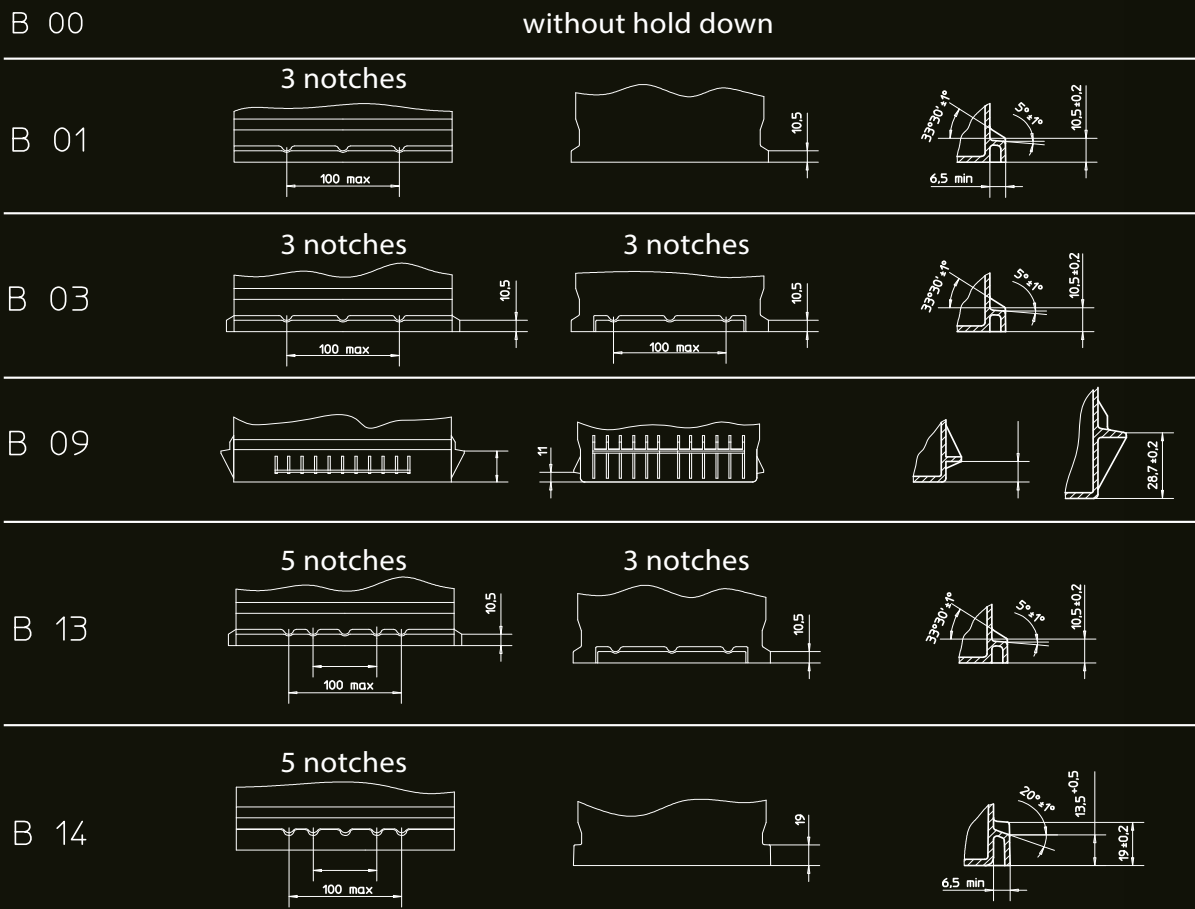


Cell Assembly Layout

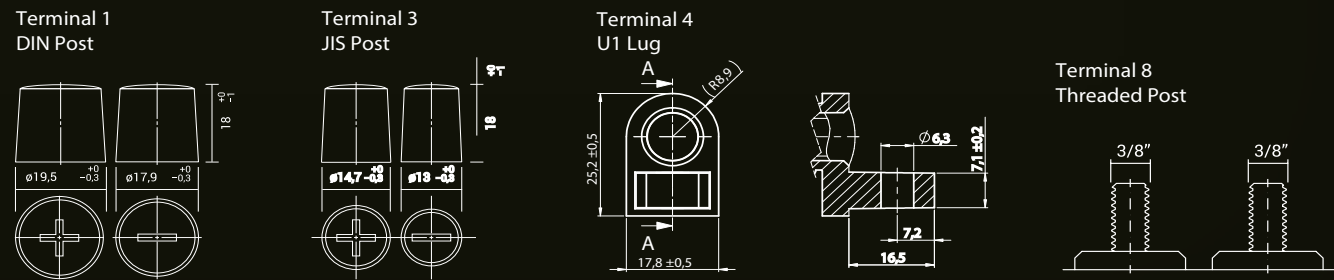
12 Volt



Hold Down



Type of Terminals





RECYCLE WITH



THE SOURCE OF POWER

HEAD OFFICE

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2024-2025 HIGH HEAT CATALOGUE

ISO 9001

ISO 14001

ISO 45001

IATF 16949



Intertek



Intertek