



BOSCH

Invented for life

Driven by
TRUST



Bosch batteries are the perfect partner to fully enjoy any kind of trip

A real boost for your business

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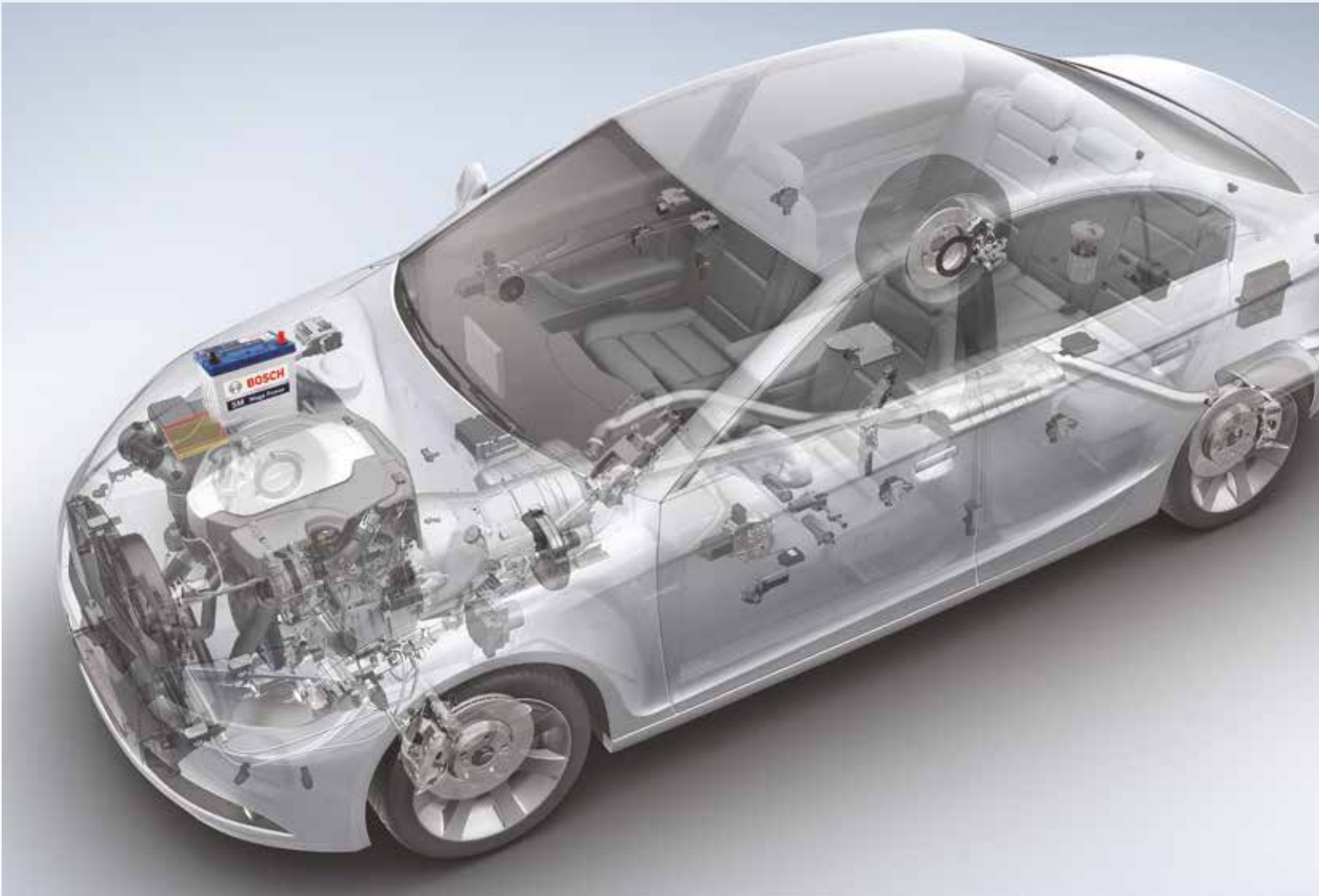
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Full Starting Power with Bosch Batteries



The Complete Battery Program from Bosch

Obvious, simple and compact - Bosch supplies the right battery for every need. Our cutting edge technology ensures reliable starting power to meet the increasing energy demand in new generation vehicles today, equipped with sophisticated electrical systems.

Assured Safety and Performance

Innovative technologies make a crucial contribution to the first-class quality and high performance capacity of Bosch batteries. They are specifically designed for different vehicle profiles and requirements. This guarantees maximum safety and reliability.

Battery Selection in Line with Customer Requests

Bosch has the battery for every customer and requirement. The battery selection is determined by the type of application, equipment, driveability and climate. Bosch batteries provide the market coverage you need for your success in the battery business.

The perfect source of power for every car

Bosch battery overview

Modern cars today are fitted with features that require higher power than you think. With the increasing on-board electrical consumables, Bosch batteries provide consistent power supply ensuring the highest standards are met at all times.



The readers of the German automobile magazine "auto, motor und sport" have voted Bosch as the best brand in the battery category for nine times in a row.



	Hightec AGM	Hightec EFB	Hightec Silver AMS	Mega Power Silver
Segmentation	ST	ST	AM	SM
Application Characteristics	Vehicles with AGM as original equipment (OE) battery. Relevant for most Start-Stop engines with regenerative braking	Vehicles with entry-level Start-Stop technology	Vehicles with Alternator Management System	Modern vehicles with sophisticated built-in electronic features
Technology	Absorbent Glass Mat (AGM) ★★★★★	Enhanced Flooded Battery (EFB) ★★★★★	Alternator Management System (AMS) ★★★★	Calcium-Silver Technology ★★★★
Benefits	Higher recharging capacity and up to 3 times cyclic endurance than conventional battery	Extended cycle life with optimized power	High charge acceptance with enhanced durability to withstand frequent charge and discharge cycles	High corrosion resistance with increased service life
Maintenance Free	✓	✓	✓	✓



Mega Power Lite	Mega Power	Mega Power (Dry Charged)	Auxiliary
SM	SM	SD	AGM
Modern vehicles with emphasis on weight reduction to improve fuel efficiency	Standard vehicles with additional electrical components	Economic option for both passenger and commercial vehicles with basic energy requirements	Mercedes Benz with dual battery system. Provides backup power in case of emergency
Silver Coated Technology ★★★★	Calcium-Calcium Technology ★★★	Lead Antimony ★	Absorbent Glass Mat (AGM) ★★★★★
Enhanced with silver, which offers high corrosion resistance and improved service life. An environmentally friendly battery	High starting power with minimum water loss	Excellent heat resistance suitable for hot environment	AGM technology offers long service life and is highly resilient to deep discharges
✓	✓		✓

ST Hightec AGM

Passenger Car



AGM technology for Advanced Start-Stop systems

Start-stop technology is rapidly gaining momentum in the market nowadays in an effort to reduce fuel consumption and CO₂ emissions.

In city traffic, the vehicle's electrical system can consume more power than the alternator can supply. Due to less charging opportunity in start-stop systems, it is crucial to have a battery that is able to recharge quickly with superior starting power to enable engine off-mode.

Benefits at a Glance



Extra Service Life

Special Lid Structure

- Double lid with labyrinth construction prevents water loss

Wide Cast on Strap

- High vibration resistance minimizes shedding of active material

Polypropylene Case

- Made of highly durable material that can withstand high internal pressure



Assured Safety

- 100% leakage proof with AGM technology
- Eliminates emission of gases due to the recombinant nature
- Safety valves relieve excess pressure



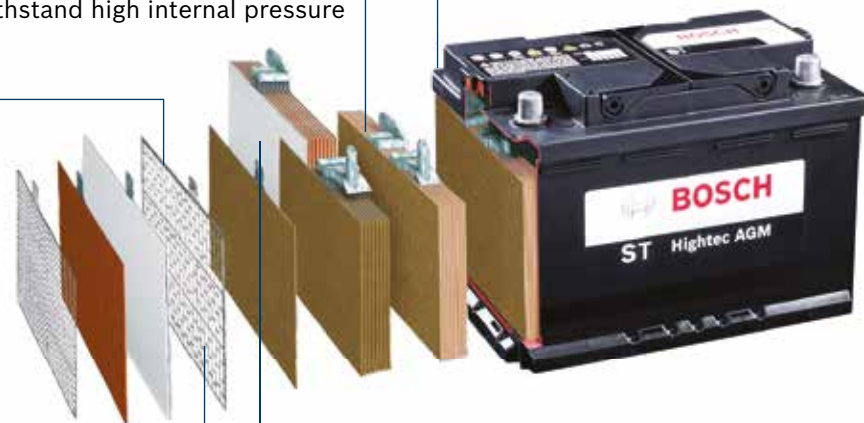
Absorbent Glass Mat

- Electrolyte absorbed by micro-porous glass separators eliminates acid spills and terminal corrosion
- Optimized component compression minimizes loss of active material
- Maximizes charge reaction due to evenly distributed electrolyte



Centralized Grid Lug / Fine Mesh Grid

- Higher charging and discharging performance
- Designed for maximum current flow and high charge efficiency
- Made of Tin-Calcium material with high corrosion resistance
- Low internal resistance translates into higher power output



How Start-Stop Technology Works

1

When the car comes to a stop, the engine switches off.

2

The battery continuously powers the air-conditioning, lighting and other infotainment systems.

3

The engine automatically restarts once the driver engages the clutch pedal or releases the brake pedal in an automatic vehicle.

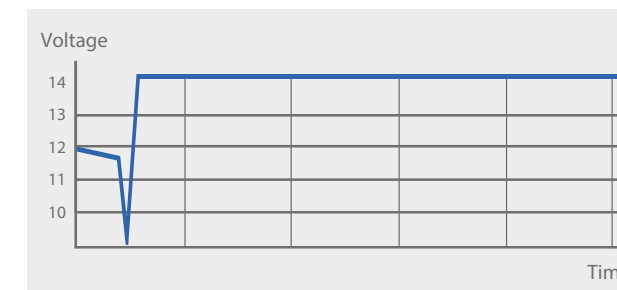


Note: Most European vehicles with start-stop function require an AGM battery. If a non-AGM battery is used in a start-stop application, it will cause enormous stress on the battery plates causing premature failure.

Load Diagram

Battery in conventional vehicle

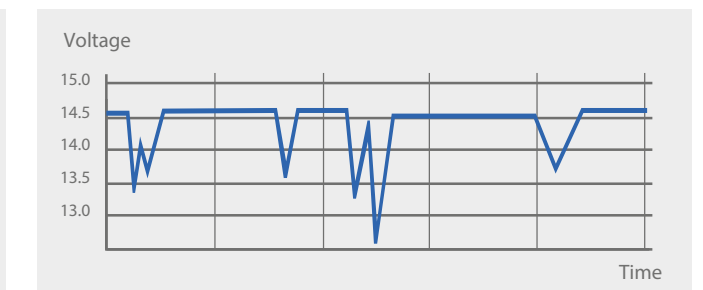
The battery requirements from charge / discharge cycles are in the "normal" range.



Characteristic: A start operation followed by recharging

Battery in start-stop vehicle

Start-stop system dramatically altered the load profile. It demands a battery which can withstand high cyclic frequency, ensuring a reliable power supply.



Characteristic: Large number of start operations, resulting in higher load on the battery

Why Should You Choose Bosch Hightec AGM Battery?

Technology



- 3 times greater cyclic endurance
- Longer service life due to the unique built-in features
- High charging acceptance to ensure sufficient power is always available

Safety



- 100% sealed and leak-proof
- Robustness to corrosion and internal short circuits
- High cranking performance even when in partial state of charge

Eco Innovation



- Recyclable shockproof housing made of polypropylene
- Acid binding characteristic reduces risk to the environment
- Supports start-stop system designed to reduce fuel consumption and CO₂ emissions

ST Hightec EFB

Passenger Car

Enhanced Performance for Entry-Level Start-Stop

Batteries with Enhanced Flooded Battery (EFB) technology are built for higher performance than conventional flooded batteries and to support entry level start-stop vehicles. Recommended for standard vehicles with high electrical demands as well.

EFB technology provides double the cyclic stability with high endurance from deep discharges.

- ▶ Designed for vehicles with entry-level Start-Stop technology for fuel efficiency
- ▶ Extended cycle life compared to conventional flooded battery
- ▶ Optimal operation in engine compartment
- ▶ High charging acceptance for the extra power and consistent performance



Benefits at a Glance



Extra Long Service Life

- High density active material and optimized particle size for longer service life



Start / Stop

- Special negative additives are added to reduce the shrinkage of active materials which increases charging acceptance



Extra High Performance

- Small-sized windows of the expanded grid reduces resistance and increases conductivity for consistent high performance



Eco Friendly

- Optimized negative grid alloy retards corrosion and prolongs the battery life cycle with high depth of discharge

Comparison Across Flooded Batteries

MP Silver



Hightec AMS

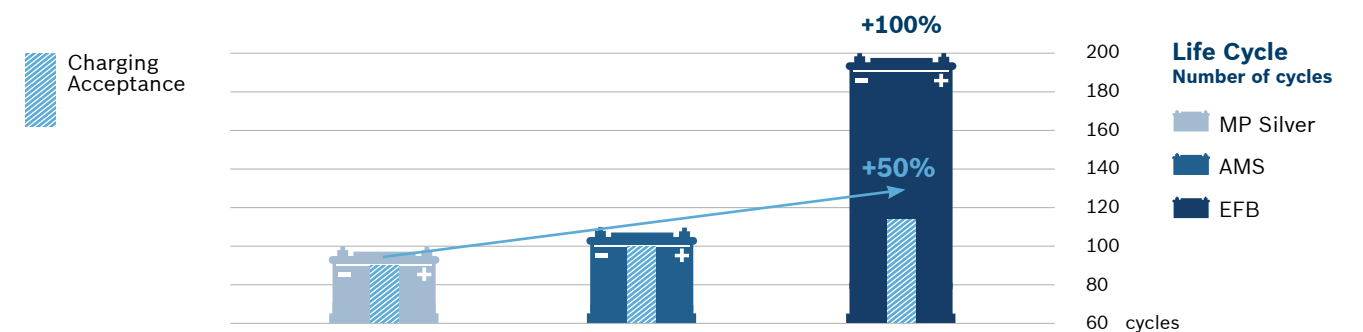


Hightec EFB



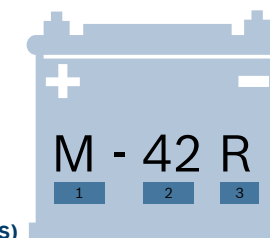
Vehicle Technology	Charging Acceptance	Price Index
Standard MF	★	\$
AMS	★★	\$\$
EFB	★★★	\$\$\$

★ Fair ★★ Good ★★★ Very Good \$ Very Economical \$\$ Economical \$\$\$ Premium

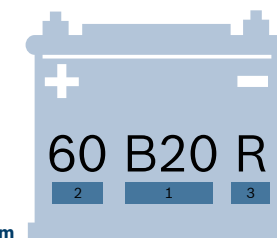


Battery Short Code Reference

SBA S0101
For Idling Stop System (ISS)



JIS D5301
For Non-ISS System



- 1 External dimension category
- 2 Performance ranking
- 3 Terminal position / polarity

Dimension Cross Reference

D5301	SBA S0101	D5301	SBA S0101
B17L B17R	J	D26L D26R	S S-95 S-95R
B19L B19R	K	D31L D31R	T T-110 T-110R
B20L B20R	M	E41L E41R	U
B24L B24R	N	F51	V
D20L D20R	P	G51	W
D23L D23R	Q	H52	X

AM Hightec Silver AMS

Passenger Car



The Right Power for Alternator Management System (AMS)

AMS constantly monitors your vehicle's operating conditions and battery state of charge to ensure optimized charge. It controls the alternator function and power supply to the battery to relieve engine workload under various conditions in an effort to reduce fuel consumption and emission.

Bosch Hightec Silver AMS battery has higher charge acceptance and characteristic to withstand the cyclic demands of AMS. Installing a conventional flooded battery in an AMS vehicle may shorten the battery's expected life span.

Benefits at a Glance



Enhanced Performance

- High density active material maximize conductivity which translates into greater power



Improved Durability

- Enhanced calcium lead alloy offers better corrosion and high-temp resistance
- Standard batteries are not robust enough to stand up to the demands of AMS for its frequent charging/ discharging cycle



Additional Power

- Fulfill additional loads from electronic gadgets and entertainment systems
- A solution for modification enthusiasts



High Charging Acceptance

- Fine mesh grids minimize electric resistance
- Enables high recharge efficiency to ensure battery is in sufficient charge state

Is your car getting enough power?

In the dynamic world of automotive, your car may require more power than you think. More than 40% of vehicles in Japan are installed with AMS.

Low Charged Battery

If battery state of charge falls below an acceptable level, AMS will be disabled until the battery recovers.



Acceleration

Alternator voltage is reduced, even possible for the alternator to be completely shut down. Vehicle consumes electric power from the battery.

Fully Charged Battery

AMS automatically disengages the alternator.



Deceleration

Excess energy not used to propel the vehicle is directed to the alternator. Alternator voltage increases, enabling battery to be charged on a large scale.

SM Mega Power Silver

Passenger Car

Silver Technology for Optimal Performance

A dependable energy supply to the wide-ranging comfort and safety features is an important factor when choosing a battery. Bosch Mega Power Silver battery is the powerhouse for recent models or upmarket vehicles with multiple electronic consumables. Bosch innovative grid technology safeguards against performance loss over time.

- ▶ Approximately 30% higher starting power compared to a standard battery
- ▶ Reliable starting under extreme temperature
- ▶ Excellent corrosion resistance with increased service life
- ▶ Enhanced safety with labyrinth lid design and flame arrestor



Benefits at a Glance



Long Service Life

- Special tissue on positive plates prevents shedding of active materials, enhancing overall service life
- Stable silver alloy grid reduces corrosion rate and decreases self-discharge



Optimal Performance

- High density and special crystal structure of active material built to surpass original equipment specifications
- Stable design structure with silver technology supports additional safety features such as ESP and ABS
- Optimized silver alloy increases conductivity for higher charge acceptance



High Resistance

- Superior thermoplastic container
- High environmental resistance combined with outstanding aesthetics
- Greater resistance to gas and oil
- Excellent safety and recyclability through innovative container material

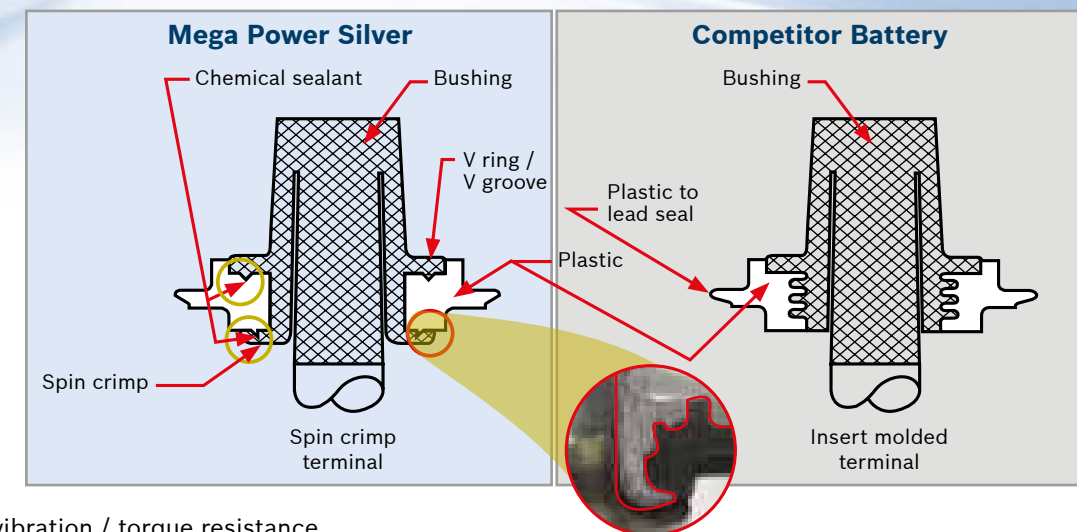


Assured Safety

- Completely sealed and maintenance free design
- Negative plates are entirely encapsulated with a tough polyethylene envelope separator which prevents short circuits due to overheating and overcharge
- Spin crimp terminals with special sealant prevent acid leakage

Spin Crimp Terminals

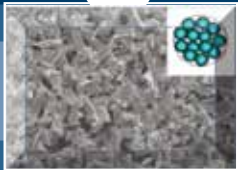
Acid leakage prevention: Spin crimp terminal is similar to a rivet joint. Special sealant is added to prevent acid leakage

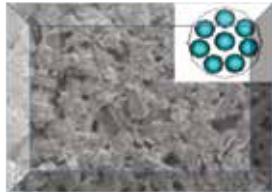


- ▶ High vibration / torque resistance
- ▶ Tight sealing using mechanical force with special added sealant

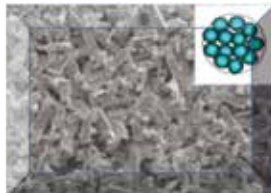
High Density and Special Crystal Structure in Active Material

Optimized power: Mega Power Silver batteries are designed with high density active material in special crystal structure. Provides better conductivity and high performance during cranking

Battery Size		Battery Model
B19		55B19
B24		75B24
D23		95D23
D26		115D26
D31		135D31



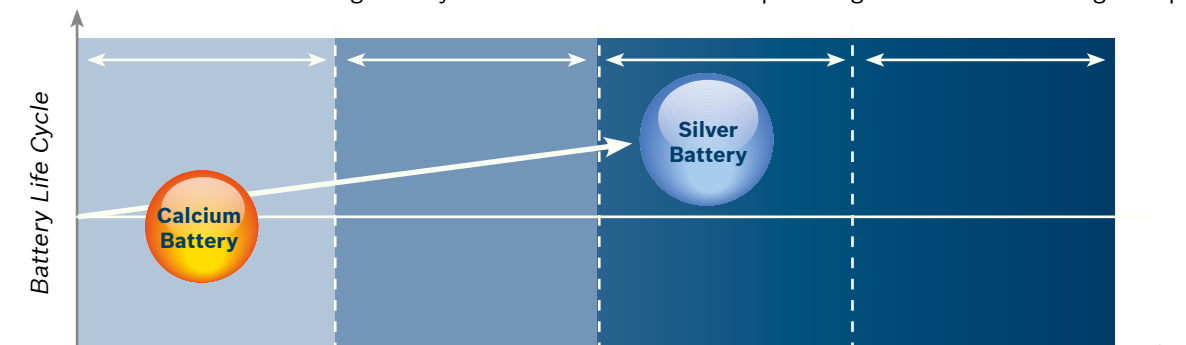
General Product



High Density Active Material

Battery Life Cycle in Hot Temperature (75°C)

Longer service life: Enhanced silver grid alloys reduce corrosion rate and provide greater tolerance in high temperature



SM Mega Power Lite

Passenger Car

Lighter Weight for Ultimate Performance

Bosch Mega Power Lite is designed to produce optimum power for today's modern vehicles without excessive usage of raw materials (Lead & plastics). This green battery is enhanced with silver which offers high corrosion resistance and improved service life. Most car manufacturers are emphasizing on weight reduction to improve fuel efficiency. Bosch Mega Power Lite battery can contribute to this with its unique weight design.

- ▶ Lighter grids and active material with original technology
- ▶ Designed based on OEM requirements of many Japanese manufacturers
- ▶ Increased fuel efficiency contributed by lighter battery construction
- ▶ Friendly to the environment, all plastic components and carton box are made of recycled materials



Benefits at a Glance



Long Service Life

- Silver-coated expanded grid reduces corrosion rate
- Fine micro-grain active materials for higher charge acceptance and durability



Optimal Performance

- Silver-coated expanded grid enhances the charging acceptance with lower weight
- Fine micro-grain provide high conductivity with energy saving for user
- Optimum capacity is not compromised with reduced material



Eco Friendly

- Optimization of raw materials
- Made of recycled plastic and paper pulp
- Light weight characteristic reduced engine workload for better fuel efficiency



Assured Safety

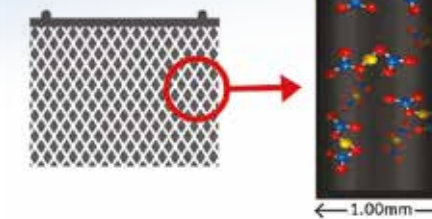
- Semi sealed to meet Japan OEM specifications
- 6 individual vent caps have built-in anti-explosion filters to enhance safety
- Vent caps are covered with patented label to provide protection while allowing ventilation

Silver-coated Expanded Grid

Longer Durability: Mega Power Lite uses silver-coated grid with lighter weight

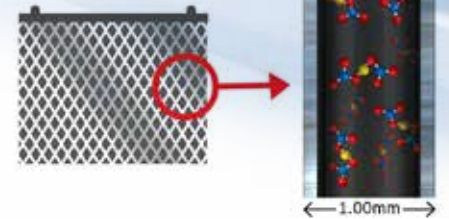
Normal Battery

Normal Calcium Lead Alloy



MPL Battery

Silver Coated Lead Alloy

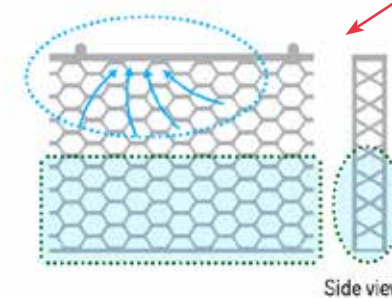


Silver-coated expanded grid enhances battery life without adding excessive weight. This is done by embedding a layer of Silver alloy onto the surface of the grid.

Reduction of Weight

Optimized Performance: Reduction of weight using thinner grids

Normal Battery

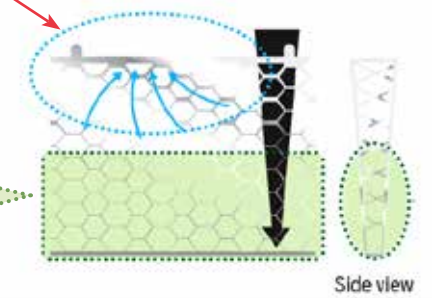


Side view

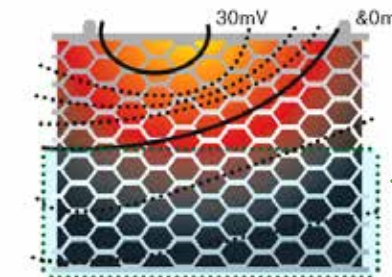
Electrical current is mostly generated from the top portion

Grid thickness is tapered from thick to thin. This reduces material waste in area that generate less electrical current.

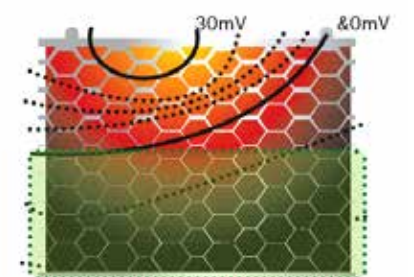
MPL Battery



Side view



Optimum capacity is not compromised even with reduced material.



Micrograin

Energy Saving: Fine Micrograin active material for higher charging acceptance, which enhances the service life

Normal Battery

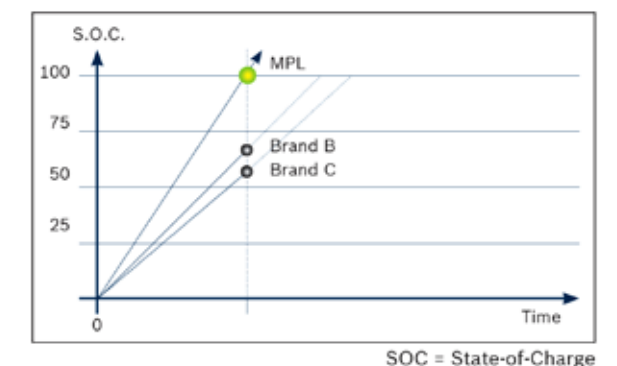


Micrograin

MPL Battery



Fine Micrograin



SM Mega Power

Passenger Car

Calcium Technology for Reliable Starting

Due to new safety and comfort standards, there is an increasing amount of electrical consumables in new vehicles nowadays. Bosch Mega Power meets the energy demands of a wide range of automotive applications ranging from compact to commercial vehicles.

- ▶ Long service life with minimum water loss
- ▶ Expanded grid technology delivers optimal power for add-on convenience features
- ▶ Enhanced safety with labyrinth lid design and flame arrestor
- ▶ Ensures reliable power supply to keep electrical devices working properly at all times
- ▶ Mid-range option which fulfills increased power demands in most vehicles today



Benefits at a Glance



Long Service Life

- Special tissue on positive plates prevents shedding of active materials, enhancing overall service life
- High Tin grid contents reduce corrosion rate while enhancing conductivity



Optimal Performance

- Central Lug ensures maximum current flow and high cranking power
- Dense active material enhances performance significantly
- Low internal resistance translates into high power output



High Resistance

- Superior thermoplastic container
- High environmental resistance combined with outstanding aesthetics
- Greater resistance to gas and oil
- Excellent safety and recyclability through innovative container material

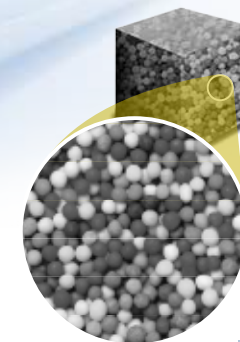


Assured Safety

- Completely sealed and maintenance free design
- Negative plates are entirely encapsulated with a tough polyethylene envelope separator which prevents short circuits due to overheating and overcharge
- Flame arrestor prevents explosion from spark

High Tin Content Expanded Grid

Longer life guaranteed: Mega Power Battery uses micro-grain expanded grids coated with high tin content



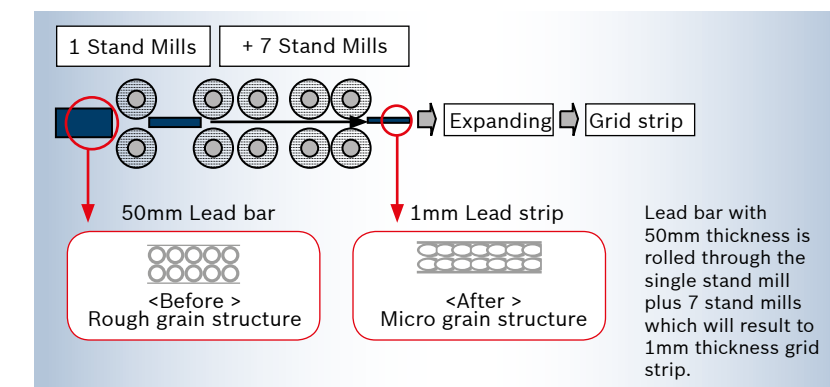
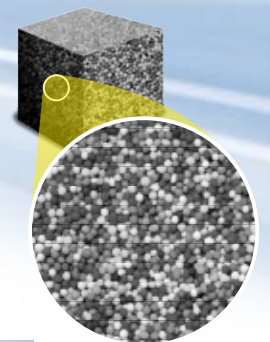
Grid corrosion status after 1 year



Normal grid



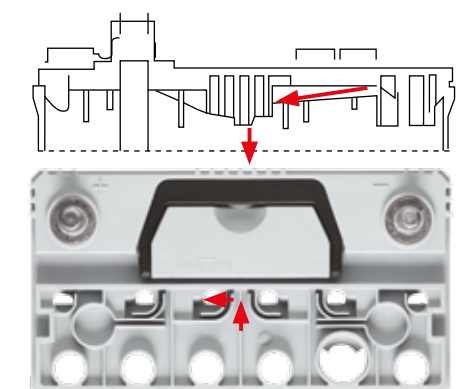
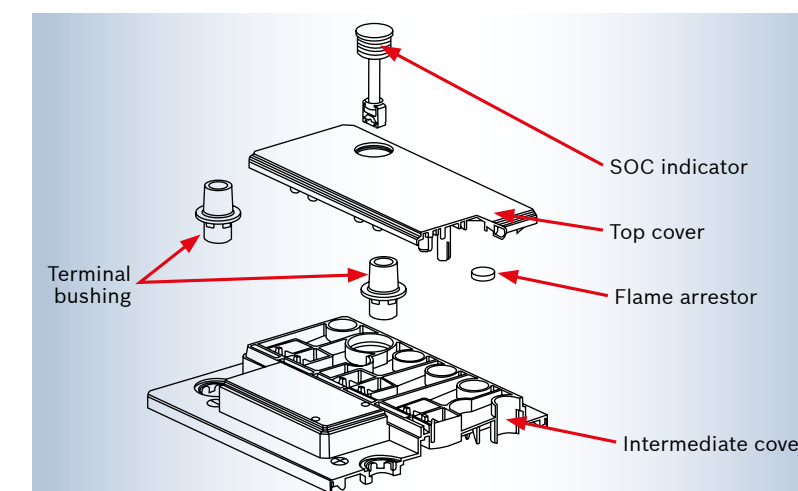
Mega Power micro grain grid



- ▶ High heat resistance
- ▶ Lead-calcium (high purity lead 99.99% grade)
- ▶ Micrograin structure of grid prevents grid corrosion and ensures longer life
- ▶ High tin content made for a more compact expanded grid

Dual Cover with Labyrinth Design

Anti-spill protection: The labyrinth design with its dual-cover layout minimizes water loss during battery operation as it collects the electrolyte vapor and returns the liquid back to the reservoir



- ▶ Complex gas-liquid separation system in intermediate cover
- ▶ Minimizes water loss due to liquid particle separation
- ▶ Integrated single-point venting in the labyrinth lid allows safe discharge of gases produced

SD Mega Power (Dry Charged)

Passenger Car

Reliable Power Supply with Low Maintenance

Bosch SD Mega Power batteries meet the demands of both passenger and commercial vehicles which require water top-ups during their service life. Depending on the operation profile, its optimized design offers users an economical solution for vehicles with low electrical demand.

- ▶ Long service life with low maintenance
- ▶ Enhanced safety with flame arrestor to prevent internal combustion
- ▶ Optimized to the highest standard for dry-charged technology
- ▶ Enveloped separator reduces internal resistance, maximizing discharging output



Benefits at a Glance



Long Service Life

- Enhanced active materials for higher endurance and maximum durability



Optimal Performance

- Optimized design enhances corrosion resistance and reduces self discharge rate



Low Internal Resistance

- Special grid design promotes faster recharging and reliable starting power in all road conditions
- Enveloped separator for lower internal resistance which enables faster recharging and higher performance



Assured Safety

- Special sealed cover design prevents acid leakage and external sparks
- Customized frame arrestor prevents inflow of outside sparks
- Enveloped separator to prevent internal short circuit between positive and negative plates

AGM Auxiliary

Passenger Car

Reliable Energy for your Mercedes-Benz

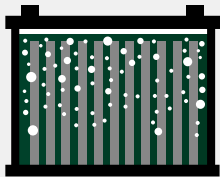
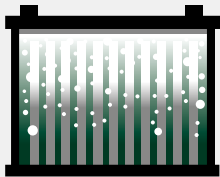
For improved security, Bosch AGM Auxiliary Battery is a must have for Mercedes Benz vehicles with dual battery system. The auxiliary battery serves as a backup power in case of alternator failure or inadequate load capacity on the main battery.

Bosch Auxiliary Battery is the power within the car system to provide reliable energy support and safety assurance for Mercedes-Benz owners.

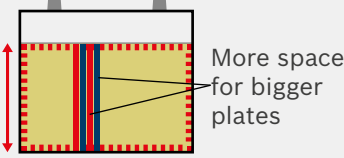
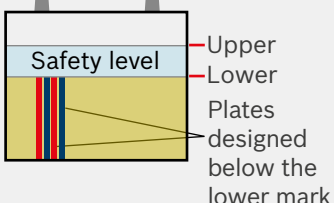


Benefits at a Glance

- **Identical to the OE battery**, it is specially designed with the exact fit
- **Absorbent Glass Mat**, also known as AGM, minimizes shedding of active materials due to its binding characteristics. This technology enables continuous and stable power supply
- **AGM technology** prevents acid stratification, which enhances performance of the battery

AGM battery	Enhanced Performance	Conventional flooded battery	Standard Performance
	Electrolyte concentration is evenly distributed from the top to the bottom cells. This promotes maximum charge reaction for greater power		Electrolyte concentration is light on top and heavy at the bottom. This limits plate activation and promotes corrosion
Acid is evenly distributed		Illustration of acid stratification	

- **Highly resilient** due to its deep cyclic ability up to three times as compared to conventional flooded battery
- **Improved durability** with larger sized plates (See illustration below)

AGM battery	Enhanced Performance	Conventional flooded battery	Standard Performance
	There is no acid safety level in AGM battery. Increased plate size promotes longer service life		Plates are designed with a height limit to prevent exposure. Overheating may cause electrolyte level to be reduced
More space for bigger plates		Upper Lower Plates designed below the lower mark	

Technical Specifications

Passenger Car

ST Hightec AGM

Main Short Code	2nd Short Code	Group Size	Bosch PN	Norm	Capacity (20HR)	CCA Amps @ -18C (BCI/SAE)	RC (Min)	Length (mm)	Width (mm)	Total Height (mm)	Terminal Type	Cell Layout	BHD
S34B20R	NS40	B20	0092S67030	JIS	36	340	57	195	126	224	B	1	B0
S46B24R	NS60	B24	0092S67031	JIS	45	370	75	200	126	224	B	1	B0
LN1	-	LN1	0092S67050	EN/DIN	50	560	80	206	175	190	A	0	B3
LN2	-	LN2	0092S67051	EN/DIN	60	680	100	242	175	190	A	0	B3
LN3	-	LN3	0092S67052	EN/DIN	70	760	120	278	175	190	A	0	B3
LN4	-	LN4	0092S67053	EN/DIN	80	800	140	316	175	190	A	0	B3
LN5	-	LN5	0092S67054	EN/DIN	95	900	160	353	175	190	A	0	B3
LN2	-	LN2	0092S67116	EN/DIN	60	660	100	242	175	190	A	0	B3
LN3	-	LN3	0092S67117	EN/DIN	70	720	120	278	175	190	A	0	B3
LN4	-	LN4	0092S67118	EN/DIN	80	800	140	316	175	190	A	0	B3
LN5	-	LN5	0092S67119	EN/DIN	92	850	160	353	175	190	A	0	B3
LN6	-	LN6	0092S67120	EN/DIN	105	950	190	393	175	190	A	0	B3

AM Hightec Silver AMS

Main Short Code	Group Size	Bosch PN	Norm	Capacity (20HR)	CCA Amps @ -18C (BCI/SAE)	RC (Min)	Length (mm)	Width (mm)	Total Height (mm)	Terminal Type	Cell Layout	BHD
55B19L	B19	0092S57160	JIS	41	400	61	187	127	223	B	0	B0
55B19R	B19	0092S57161	JIS	41	400	61	187	127	223	B	1	B0
55B19LS	B19	0092S57162	JIS	41	400	61	187	127	223	A	0	B0
75B24LS	B24	0092S57163	JIS	55	510	90	238	129	223	A	0	B0
75B24RS	B24	0092S57164	JIS	55	510	90	238	129	223	A	1	B0
75B24L	B24	0092S57165	JIS	55	510	90	238	129	223	B	0	B0
75B24R	B24	0092S57166	JIS	55	510	90	238	129	223	B	1	B0
100D23L	D23	0092S57167	JIS	70	650	120	232	174	225	A	0	B7
100D23R	D23	0092S57168	JIS	70	650	120	232	174	225	A	1	B7
105D26L	D26	0092S57169	JIS	85	730	145	260	176	225	A	0	B1
105D26R	D26	0092S57170	JIS	85	730	145	260	176	225	A	1	B1
130D31L	D31	0092S57171	JIS	93.75	780	165	304	173	225	A	0	B7
130D31R	D31	0092S57172	JIS	93.75	780	165	304	173	225	A	1	B7
545.042	T4/LB1	0092S57173	EN/DIN	45	420	75	208	175	175	A	0	B3
544.036	H4/L1	0092S57174	EN/DIN	44	360	75	208	175	190	A	0	B3
544.136	H4/L1	0092S57175	EN/DIN	44	360	75	208	175	190	A	1	B3
560.064	T5/LB2	0092S57176	EN/DIN	60	640	100	245	175	175	A	0	B3
555.046	H5/L2	0092S57177	EN/DIN	55	460	90	245	175	190	A	0	B3
555.146	H5/L2	0092S57178	EN/DIN	55	460	90	245	175	190	A	1	B3
562.051	H5/L2	0092S57179	EN/DIN	62	510	95	245	175	190	A	0	B3
562.151	H5/L2	0092S57180	EN/DIN	62	510	95	245	175	190	A	1	B3
574.065	T6/LB3	0092S57188	EN/DIN	74	650	120	277	175	175	A	0	B4
575.065	T6/LB3	0092S57181	EN/DIN	75	650	120	277	175	175	A	0	B3
578.070	H6/L3	0092S57182	EN/DIN	78	700	130	277	175	190	A	0	B3
578.170	H6/L3	0092S57183	EN/DIN	78	700	130	277	175	190	A	1	B3

AM Hightec Silver AMS (continued)

Main Short Code	Group Size	Bosch PN	Norm	Capacity (20HR)	CCA Amps @ -18C (BCI/SAE)	RC (Min)	Length (mm)	Width (mm)	Total Height (mm)	Terminal Type	Cell Layout	BHD
585.076	T8/LB5	0092S57184	EN/DIN	85	760	155	353	175	175	A	0	B3
600.085	H8/L5	0092S57185	EN/DIN	100	850	180	353	175	190	A	0	B3
610.092	H9/L6	0092S57186	EN/DIN	110	920	190	395	175	190	A	0	B3
580.073	T7/LB4	0092S57187	EN/DIN	80	730	135	315	175	175	A	0	B3

ST Hightec EFB

Main Short Code	2nd Short Code	Group Size	Bosch PN	Norm	Capacity (20HR)	CCA Amps @ -18C (BCI/SAE)	RC (Min)	Length (mm)	Width (mm)	Total Height (mm)	Terminal Type	Cell Layout	BHD
N55L	70824L	B24	0092S67102	JIS	55	510	90	238	129	223	B	0	B1
N55LS	70B24LS	B24	0092S67103	JIS	55	510	90	238	129	223	A	0	B1
N55R	70B24R	B24	0092S67104	JIS	55	510	90	238	129	223	B	1	B1
N55RS	70B24RS	B24	0092S67105	JIS	55	510	90	238	129	223	A	1	B1
Q85	95D23L	D23	0092S67080	JIS	65	620	115	232	173	225	A	0	B7
Q85L	95D23L	D23	0092S67106	JIS	65	550	110	232	173	225	A	0	B1
Q85R	95D23R	D23	0092S67107	JIS	65	550	110	232	173	225	A	1	B1
S95L	105D26L	D26	0092S67108	JIS	70	680	130	260	173	225	A	0	B1
S95R	105D26R	D26	0092S67109	JIS	70	680	130	260	173	225	A	1	B1
T110L	120D31L	D31	0092S67110	JIS	95	760	150	304	173	225	A	0	B7
T110R	120D31R	D31	0092S67111	JIS	95	760	150	304	173	225	A	1	B7
LN2	-	H5/L2	0092S67112	EN/DIN	60	560	100	245	175	190	A	0	B3
LN3	-	H6/L3	0092S67113	EN/DIN	70	680	120	277	175	190	A	0	B3
LN4	-	H7/L4	0092S67114	EN/DIN	80	730	145	313	175	190	A	0	B3
LN5	-	H8/L5	0092S67115	EN/DIN	95	850	175	353	175	190	A	0	B3

SM Mega Power Lite

Main Short Code	2nd Short Code	Group Size	Bosch PN	Norm	Capacity (20HR)	CCA Amps @ -18C (BCI/SAE)	RC (Min)	Length (mm)	Width (mm)	Total Height (mm)	Terminal Type	Cell Layout	BHD
34B19L	-	B19	0092S47218	JIS	32	240	49	187	127	227	B	0	B0
34B19R	-	B19	0092S47217	JIS	32	240	49	187	127	227	B	1	B0
38B19L	NS40ZL	B19	0092S47201	JIS	38	340	52	187	127	227	B	0	B0
38B19R	NS40Z	B19	0092S47200	JIS	38	340	52	187	127	227	B	1	B0
55B24L	NX100-S6L	B24	0092S47203	JIS	52	480	64	238	129	227	B	0	B0
55B24LS	NX100-S6L	B24	0092S47221	JIS	52	480	82	238	129	227	A	0	B0
55B24R	NX100-S6	B24	0092S47202	JIS	52	480	64	238	129	227	B	1	B0
55B24RS	NX100-S6	B24	0092S47220	JIS	52	480	82	238	129	227	A	1	B0
75D23L	-	D23	0092S47205	JIS	65	465	95	232	173	225	A	0	B0
75D23R	-	D23	0092S47204	JIS	65	465	95	232	173	225	A	1	B0
80D26L	NX110-5L	D26	0092S47207	JIS	70	490	103	260	173	225	A	0	B0
80D26R	NX110-5	D26	0092S47206	JIS	70	490	103	260	173	225	A	1	B0
95D31L	NX120-7L	D31	0092S47209	JIS	80	565	125	306	173	225	A	0	B0
95D31R	NX120-7	D31	0092S47208	JIS	80	565	125	306	173	225	A	1	B0
105D31L	105D31L	D31	0092S47211	JIS	90	655	132	306	173	225	A	0	B0
105D31R	105D31R	D31	0092S47210	JIS	90	655	132	306	173	225	A	1	B0
54421	-	H4/LN1	0092S47212	EN/DIN	44	360	70	212	175	192	A	0	B13
56225	-	H5/LN2	0092S47213	EN/DIN	62	480	90	245	175	192	A	0	B13
57428	-	H6/LN3	0092S47214	EN/DIN	74	540	110	275	175	192	A	0	B13
58815	-	H8/LN5	0092S47215	EN/DIN	88	550	150	355	175	192	A	0	B0
60038	-	H8/LN5	0092S47216	EN/DIN	100	605	165	355	175	192	A	0	B0

Technical Specifications

Passenger Car

SM Mega Power Silver

Main Short Code	Group Size	Bosch PN	Norm	Capacity (20HR)	CCA Amps @ -18C (BCI/SAE)	RC (Min)	Length (mm)	Width (mm)	Total Height (mm)	Terminal Type	Cell Layout	BHD
46B20L	B20	0092S57020	JIS	45	370	63	196	128	224	B	0	B0
46B20R	B20	0092S57021	JIS	45	370	63	196	128	224	B	1	B0
46B20LS	B20	0092S57022	JIS	45	370	63	197	129	224	A	0	B0
46B20RS	B20	0092S57023	JIS	45	370	63	197	129	224	A	1	B0
70B24LS	B24	0092S57024	JIS	58	510	92	237	128	224	A	0	B0
70B24RS	B24	0092S57025	JIS	58	510	92	237	128	224	A	1	B0
70B24L	B24	0986A02232	JIS	58	510	92	237	128	224	B	0	B0
70B24R	B24	0986A02233	JIS	58	510	92	237	128	224	B	1	B0
90D23L	D23	0986A02234	JIS	75	650	125	229	172	222	A	0	B7
90D23R	D23	0986A02235	JIS	75	650	125	229	172	222	A	1	B7
110D26L	D26	0092S57026	JIS	93	680	160	260	172	222	A	0	B7
110D26R	D26	0092S57027	JIS	93	680	160	260	172	222	A	1	B7
125D31L	D31	0092S57028	JIS	94	760	165	302	172	222	A	0	B7
125D31R	D31	0092S57029	JIS	94	760	165	302	172	222	A	1	B7
545.035	T4/LB1	0986A02326	DIN	45	420	80	207	175	175	A	0	B3
544.035	H4/LN1	0986A02327	DIN	44	360	80	207	175	190	A	0	B3
544.135	H4/LN1	0986A02328	DIN	44	360	80	207	175	190	A	1	B3
560.060	T5/LB2	0986A02329	DIN	60	600	100	242	175	175	A	0	B3
555.035	H5/LN2	0986A02330	DIN	55	420	90	242	175	190	A	0	B3
555.142	H5/LN2	0092S57100	DIN	55	420	90	242	175	190	A	1	B3
562.048	H5/LN2	0986A02331	DIN	62	480	95	242	175	190	A	0	B3
562.148	H5/LN2	0092S57101	DIN	62	480	95	242	175	190	A	1	B3
570.045	T6/LB3	0986A02332	DIN	70	640	110	278	175	175	A	0	B4
575.068	T6/LB3	0986A02333	DIN	75	680	120	278	175	175	A	0	B3
574.068	H6/LN3	0986A02334	DIN	74	680	120	278	175	190	A	0	B3
574.168	H6/LN3	0986A02335	DIN	74	680	120	278	175	190	A	1	B3
580.035	T7/LB4	0986A02341	DIN	80	720	135	315	175	175	A	0	B3
585.035	T8/LB5	0986A02336	DIN	85	760	165	352	175	175	A	0	B3
600.035	H8/LN5	0986A02337	DIN	100	760	180	352	175	190	A	0	B3
610.035	H9/LN6	0986A02340	DIN	110	850	190	394	175	190	A	0	B3

SM Mega Power

Main Short Code	2nd Short Code	Group Size	Bosch PN	Norm	Capacity (20HR)	CCA Amps @ -18C (BCI/SAE)	RC (Min)	Length (mm)	Width (mm)	Total Height (mm)	Terminal Type	Cell Layout	BHD
32C24R	N40R	C24	0986A02630	JIS	35	330	57	238	129	225	A	1	B0
32C24L	N40L	C24	0986A02631	JIS	35	330	57	238	129	225	A	0	
40B19R	NS40ZR	B19	0986A00405	JIS	35	330	57	187	127	226	B	1	B1
40B19R-BHD	NS40ZR-BHD	B19	0092S37078	JIS	35	330	57	187	127	226	B	1	
40B19L	NS40ZL	B19	0986A00404	JIS	35	330	57	187	127	226	B	0	B0
40B19L-BHD	NS40ZL-BHD	B19	0092S37077	JIS	35	330	57	187	127	226	B	0	B1
38B19L	-	B19	0092S37443	JIS	35	280	52	187	127	223	B	0	B0
38B19R	-	B19	0092S37457	JIS	35	280	52	187	127	223	B	1	B0

SM Mega Power (continued)

Main Short Code	2nd Short Code	Group Size	Bosch PN	Norm	Capacity (20HR)	CCA Amps @ -18C (BCI/SAE)	RC (Min)	Length (mm)	Width (mm)	Total Height (mm)	Terminal Type	Cell Layout	BHD
42B20L	-	B20	0092S47020	JIS	38	340	52	197	129	223	B	0	B0
42B20R	-	B20	0092S47021	JIS	38	340	52	197	129	223	B	1	B0
42B20LS	-	B20	0092S47022	JIS	38	340	52	197	129	223	A	0	B0
42B20RS	-	B20	0092S47023	JIS	38	340	52	197	129	223	A	1	B0
46B24R	NS60R	B24	0986A00362	JIS	42	400	70	238	129	225	B	1	-
46B24R-BHD	NS60R-BHD	B24	0092S37080	JIS	42	400	70	238	129	225	B	1	B1
46B24L	NS60L	B24	0986A00363	JIS	42	400	70	238	129	225	B	0	B0
46B24L-BHD	NS60L-BHD	B24	0092S37079	JIS	42	400	70	238	129	225	B	0	B1
46B24RS	NS60RS	B24	0986A00364	JIS	42	400	70	238	129	225	A	1	-
46B24RS-BHD	NS60RS-BHD	B24	0092S37082	JIS	42	400	70	238	129	225	A	1	B1
46B24LS	NS60LS	B24	0986A00365	JIS	42	400	70	238	129	225	A	0	B0
46B24LS-BHD	NS60LS-BHD	B24	0092S37081	JIS	42	400	70	238	129	225	A	0	B1
55B24R	NX100-S6R	B24	0986A00407	JIS	45	430	76	238	129	225	B	1	-
55B24R-BHD	NX100-S6R (BHD)	B24	0092S37084	JIS	45	430	76	238	129	225	B	1	B1
55B24L	NX100-S6L	B24	0986A00406	JIS	45	430	76	238	129	225	B	0	B0
55B24L-BHD	NX100-S6L (BHD)	B24	0092S37083	JIS	45	430	76	238	129	225	B	0	B1
55B24RS	NX100-S6RS	B24	0986A00409	JIS	45	430	76	238	129	225	A	1	-
55B24RS-BHD	NX100-S6RS (BHD)	B24	0092S37086	JIS	45	430	76	238	129	225	A	1	B1
55B24LS	NX100-S6LS	B24	0986A00408	JIS	45	430	76	238	129	225	A	0	B0
55B24LS-BHD	NX100-S6LS (BHD)	B24	0092S37085	JIS	45	430	80	238	129	225	A	0	B1
48D26R	N50R	D26	0986A00372	JIS	50	420	80	260	173	222	A	1	-
48D26L	N50L	D26	0986A00373	JIS	50	420	80	260	173	222	A	0	B0
65B24L	-	B24	0092S47024	JIS	52	480	82	238	129	223	B	0	B0
65B24R	-	B24	0092S47025	JIS	52	480	82	238	129	223	B	1	B0
65B24LS	-	B24	0092S47026	JIS	52	480	82	238	129	223	A	0	B0
65B24RS	-	B24	0092S47027	JIS	52	480	82	238	129	223	A	1	B0
55D23R	-	D23	0986A00368	JIS	60	500	100	232	173	225	A	1	-
55D23R-BHD	-	D23	0092S37088	JIS	60	500	100	232	173	225	A	1	B1
55D23L	-	D23	0986A00369	JIS	60	500	100	232	173	225	A	0	B0
55D23L-BHD	-	D23	0092S37087	JIS	60	500	100	232	173	225	A	0	B1
55D26R	N50ZR	D26	0986A00414	JIS	60	500	100	260	173	222	A	1	-
55D26R-BHD	N50ZR-BHD	D26	0092S37092	JIS	60	500	100	260	173	222	A	1	B1
55D26L	N50ZL	D26	0986A00415	JIS	60	500	100	260	173	222	A	0	B0
55D26L-BHD	N50ZL-BHD	D26	0092S37091	JIS	60	500	100	260	173	222	A	0	B1
65D31R	N70R	D31	0986A00378	JIS	65	560	108	303	173	225	A	1	-
65D31L	N70L	D31	0986A00379	JIS	65	560	108	303	173	225	A	0	B0
75D23L-BHD7	-	D23	0092S37446	JIS	65	520	112	232	174	225	A	0	B7
75D23R-BHD7	-	D23	0092S37458	JIS	65	520	112	232	174	225	A	1	B7
80D23R	-	D23	0986A00411	JIS	70	580	115	232	173	225	A	1	-
80D23R-BHD	-	D23	0092S37090	JIS	70	580	115	232	-	225	A	1	B1
80D23L	-	D23	0986A00410	JIS	70	580	115	232	173	225	A	0	B0

Technical Specifications

Passenger Car

SM Mega Power (continued)

Main Short Code	2nd Short Code	Group Size	Bosch PN	Norm	Capacity (20HR)	CCA Amps @ -18C (BCI/SAE)	RC (Min)	Length (mm)	Width (mm)	Total Height (mm)	Terminal Type	Cell Layout	BHD
80D23L-BHD	-	D23	0092S37089	JIS	70	580	115	232	173	225	A	0	B1
80D26R	NX110-5R	D26	0986A00376	JIS	70	600	130	260	173	222	A	1	-
80D26R-BHD	NX110-5R (BHD)	D26	0092S37094	JIS	70	600	115	260	173	222	A	1	B1
80D26L	NX110-5L	D26	0986A00377	JIS	70	600	130	260	173	222	A	0	B0
80D26L-BHD	NX110-5L (BHD)	D26	0092S37093	JIS	70	600	115	260	173	222	A	0	B1
80D23L-BHD7	-	D23	0092S47028	JIS	70	560	120	232	174	225	A	0	B7
80D23R-BHD7	-	D23	0092S47029	JIS	70	560	120	232	174	225	A	1	B7
75D31R	N70ZR	D31	0986A00416	JIS	75	640	130	303	173	225	A	1	-
75D31R-BHD	N70ZR-BHD	D31	0092S37096	JIS	75	640	130	303	173	225	A	1	B7
75D31L	N70ZL	D31	0986A00417	JIS	75	640	130	303	173	225	A	0	B0
75D31L-BHD	N70ZL-BHD	D31	0092S37095	JIS	75	640	130	303	173	225	A	0	B7
90D26L-BHD	-	D26	0092S47030	JIS	75	620	140	260	176	225	A	0	B1
90D26R-BHD	-	D26	0092S47031	JIS	75	620	140	260	176	225	A	1	B1
95D31R	NX120-7R	D31	0986A00382	JIS	85	730	145	303	173	225	A	1	-
95D31R-BHD	NX120-7R (BHD)	D31	0092S37098	JIS	85	730	145	303	173	225	A	1	B1
95D31L	NX120-7L	D31	0986A00383	JIS	85	730	145	303	173	225	A	0	B0
95D31L-BHD	NX120-7L (BHD)	D31	0092S37097	JIS	85	730	145	303	173	225	A	0	B1
105D31L-BHD7	-	D31	0092S47032	JIS	90	710	160	304	173	225	A	0	B7
105D31R-BHD7	-	D31	0092S47033	JIS	90	710	160	304	173	225	A	1	B7
54519	-	T5/LB2	0986A00216	EN/DIN	45	420	78	245	175	175	A	0	B4
55457	-	T5/LB2	0986A00442	EN/DIN	50	500	85	245	175	175	A	0	B3
55559	-	H5/L2	0986A00223	EN/DIN	55	460	94	245	175	190	A	0	B3
55565	-	H5/L2	0986A00224	EN/DIN	55	460	94	245	175	190	A	1	B3
56219	-	H5/L2	0986A00242	EN/DIN	62	510	100	245	175	190	A	0	B3
56318	-	T6/LB3	0986A00225	EN/DIN	63	580	110	277	175	175	A	0	B3/B4
56638	-	H6/L3	0986A00228	EN/DIN	66	560	110	278	175	190	A	0	B3
55414	-	T6/LB3	0986A00403	EN/DIN	54	500	94	277	175	175	A	1	B3/B4
56637	-	T6/LB3	0092S47041	EN/DIN	66	540	110	277	175	175	A	0	B1
57012	-	H6/L3	0092S37479	EN/DIN	70	770	120	278	175	190	A	0	B3
57220	-	H6/L3	0986A00234	EN/DIN	72	610	120	278	175	190	A	0	B3
58014	-	T7/LB4	0986A00413	EN/DIN	80	730	135	315	175	175	A	0	B3
58513	-	H8/L5	0986A00243	EN/DIN	80	680	140	303	173	225	A	0	B0
58514	-	H8/L5	0986A00244	EN/DIN	80	680	140	303	173	225	A	1	B0
58827	-	H8/L5	0986A00236	EN/DIN	88	760	150	353	175	190	A	0	B3
60044	-	H8/L5	0092S37073	EN/DIN	100	850	180	353	175	190	A	0	B3
34-550	-	34	0986A02500	BCI	52	550	86	260	171	205	A	1	10
58-530	-	58	0986A02504	BCI	52	530	88	236	183	177	A	1	21

SM Mega Power (continued)

Main Short Code	2nd Short Code	Group Size	Bosch PN	Norm	Capacity (20HR)	CCA Amps @ -18C (BCI/SAE)	RC (Min)	Length (mm)	Width (mm)	Total Height (mm)	Terminal Type	Cell Layout	BHD
75-615	-	75	0986A02507	BCI	56	600	93	231	179	185	SIDE	1	17
78-760	-	78	0986A02510	BCI	69	750	115	260	179	185	SIDE	1	17
78DT-760	-	78	0986A02512	BCI	69	750	115	260	179	205	DUAL	1	17
65-660	-	65	0986A02505	BCI	70	660	120	292	189	191	A	1	21
S2000	-	31	0092S47035	BCI	100	580	180	330	173	238	STUD	Center	B0
65-7MF	-	65	0092S47045	BCI	85	850	155	292	189	191	A	1	B8
M27	-	27	0092S47034	BCI	105	570	160	320	172	229	MRN	1	B7

SD Mega Power (Dry Charged)

Main Short Code	2nd Short Code	Group Size	Bosch PN	Norm	Capacity (20HR)	CCA Amps @ -18C (BCI/SAE)	RC (Min)	Length (mm)	Width (mm)	Total Height (mm)	Terminal Type	Cell Layout	BHD
36B20L	NS40ZL	B20	0092S37031	JIS	35	270	39	187	127	227	B	0	B0
36B20R	NS40Z	B20	0092S37030	JIS	35	270	39	187	127	227	B	1	B0
46B24AL	NS60AL	B24	0092S37192	JIS	40	238	40	238	129	227	B	0	B0
46B24ARS	NS60ARS	B24	0092S37193	JIS	40	238	40	238	129	227	A	1	B0
46B24ALS	NS60ALS	B24	0092S37194	JIS	40	238	40	238	129	227	A	0	B0
46B24L	NS60L	B24	0092S37033	JIS	45	320	56	238	129	227	B	0	B0
46B24LS	NS60LS	B24	0092S37035	JIS	45	320	56	238	129	227	A	0	B0
46B24R	NS60	B24	0092S37032	JIS	45	320	56	238	129	227	B	1	B0
46B24RS	NS60S	B24	0092S37034	JIS	45	320	56	238	129	227	A	1	B0
48D26L	N50L	D26	0092S37039	JIS	50	270	72	260	173	225	A	0	B0
48D26R	N50	D26	0092S37038	JIS	50	270	72	260	173	225	A	1	B0
55D23L	55D23L	D23	0092S37037	JIS	60	350	74	232	173	225	A	0	B0
55D23R	55D23R	D23	0092S37036	JIS	60	350	74	232	173	225	A	1	B0
55D26L	N50ZL	D26	0092S37041	JIS	60	340	82	260	173	225	A	0	B0
55D26R	N50Z	D26	0092S37040	JIS	60	340	82	260	173	225	A	1	B0
65D26L	NS70L	D26	0092S37043	JIS	65	410	89	260	173	225	A	0	B0
65D26R	NS70	D26	0092S37042	JIS	65	410	89	260	173	225	A	1	B0
65D31R	N70	D31	0092S37044	JIS	70	380	97	306	173	225	A	1	B0
75D31L	N70ZL	D31	0092S37046	JIS	75	440	116	306	173	225	A	0	B0
75D31R	N70Z	D31	0092S37045	JIS	75	440	116	306	173	225	A	1	B0
80D26L	NX110-5L	D26	0092S37057	JIS	68	580	103	260	173	225	A	0	B0
80D26R	NX110-5R	D26	0092S37056	JIS	68	580	103	260	173	225	A	1	B0
95D31L	NX120-7L	D31	0092S37048	JIS	80	620	125	306	173	225	A	0	B0
95D31R	NX120-7	D31	0092S37047	JIS	80	620	125	306	173	225	A	1	B0
55559	-	H5/LN2	0092S37053	EN/DIN	55	255	255	242	175	190	A	0	B3
58827	-	H8/LN5	0092S37054	EN/DIN	88	395	395	353	175	190	A	0	B3
60038	-	H8/LN5	0092S37055	EN/DIN	100	500	500	353	175	190	A	0	B3

AGM Auxiliary

Bosch PN	Capacity (10HR)	CCA Amps @ -18C	Length (mm)	Width (mm)	Total Height (mm)	Cell Layout	Vent Hole
0092S67060	12	170	150	87	145	1	On the side
0092S67061	1.2	-	97	49	58	4	-

Technical Specifications

Passenger Car

Cell Layout

0		1	
3		4	
9 (Center)			

Terminal Type

Terminal	A (Standard)	B (Small)	Top Post	Dual Fit	4F	Stud	Side
Positive						 3/8"-16 Threads	
Negative						 3/8"-16 Threads	

* DT: Dual Terminal (Standard + Side)

Bottom Hold - Down Configuration (BHD)

B1		B3	
B4		B5	
B6		B7	
B8		B11	
B13		B14	

* For B0 there is no Hold-down

The Ultimate Powerful Journey

For Bosch, every battery is a technological milestone. In 1922, Bosch made its mark in battery production. From manufacturing batteries for passenger vehicles to off-highway applications, Bosch continuously revolutionizes its line of products for the automotive industry across the globe.

By creating new solutions such as Bosch Hightec AGM Battery for Start-Stop Technology, the company addresses the needs of the ever-changing market. Whether it's about powering your motorcycle or premium car, you can always expect technology breakthroughs from Bosch.

M4 & M6 Motorcycle



Bosch M4 Battery

The Bosch M4 battery supplies reliable starting power. The technical basis for this performance is provided by a perfectly matched plate construction, an innovative grid design and a special separator.

The M4 grid design guarantees optimum conductivity and resistance to vibration. M4 is suitable for almost all motorcycles which require 6V or 12V.

Bosch M6 Battery

The Bosch M6 battery (AGM) is ideal for numerous electrical consumers and easily copes with extreme condition such as long off-road journeys. Thanks to the pioneering AGM (Absorbent Glass Mat) technology with adequate power reserves ideal for off-road and touring motorcycles, scooters, dirt bikes, ATV quads, snowmobiles and jet skis.

Absorbent Glass Mat (AGM) technology provides long service life and high starting power.

Special micro fiberglass mats completely absorb the electrolyte making it 100% spill-proof with enhanced safety. High contact pressure design minimizes the loss of active materials and promotes higher power output in tough conditions.



	M4: Dry Charged	M6 AGM: Bottle Separate	M6 AGM: Factory Activated
Topping-up	Yes	Only first time	No
Filler Cap	Removable	Fixed	Fixed
Spill Proof	No	Yes, severe angles	Yes, severe angles
Self-discharge performance after filling electrolyte	★	★★	★★★
Storage characteristics	★★	★★★	★★★
Cranking performance	★★	★★	★★★
Safety performance	★★	★★★	★★★

★ Fair ★★ Good ★★★ Very Good

Benefits at a Glance



Factory Activated*

- Premium maintenance-free design**
- Ready to install immediately
 - Factory charged with acid included for maximum performance

**Not applicable for M4 and M6-BS type*



Assured Safety

- Safety valves and AGM separator***
- Relieve excess pressure
 - Spill-proof design, able to operate at severe angles
 - Superior vibration resistance

**AGM is only applicable for M6*



High Power

Through-partition inter cell welds

- Provide shorter current path with less resistance for higher cranking power



High Resistance

Superior Thermoplastic Container

- High environmental resistance combined with outstanding aesthetics
- Greater resistance to gas and oil
- Excellent safety and recyclability through innovative container material



Optimal Performance

Unique grid design

- Designed for maximum conductivity
- Higher cranking capability
- Enhanced corrosion resistance



Long Service Life

Enhanced active materials

- Optimized crystal size for higher endurance and discharge output
- Anti-sulphate additives reduces sulphate crystal build up that enhances battery life with optimum performance

M4 & M6

Motorcycle



Technical Specifications

M6: AGM Bottle Separate (BS)

Main Short Code	Bosch PN	10 Hr CAP (Ah)	CCA (Amps) -18C	Length (mm)	Width (mm)	Height (mm)	Cell Layout	Terminal
BTX4L-BS	0092M68010	3	60	113	70	85	0	A
RBTX4L-BS	0092M67130	3	50	113	70	85	0	A
GTZ-5S	0092M67110	3.5	70	113	70	85	0	A
RBTX5L-BS	0092M67131	4	70	113	70	105	0	A
BTX5L-BS	0092M68020	4	90	113	70	105	0	A
BT5AL-BS	0092M67060	5	70	120	60	130	0	B
BTZ7S-BS	0092M67006	6	100	113	70	105	0	A
BTX7L-BS	0092M68030	6	120	113	70	130	0	A
BTX7A-BS	0092M67132	6	100	150	87	93	1	A
RBT7B-BS	0092M67133	6.5	85	150	66	93	1	A
12N6.5L-BS	0092M67007	6.5	85	139	66	100	0	B
BT7B-BS	0092M67133	6.5	100	150	66	93	1	A
RBTX9-BS	0092M67134	8	120	150	87	105	1	A
RBTZ10S-BS	0092M67135	8.6	190	150	88	93	1	A
RB12A-BS	0092M68070	10	175	150	88	105	1	A
BTX12-BS	0092M68050	10	180	150	87	130	1	A
BT12B-BS	0092M68060	10	175	150	70	130	1	A
BTX14-BS	0092M68080	12	210	150	87	145	1	A
BTX20L-BS	0092M67140	18	270	175	87	155	0	A

2W Terminal Configuration Reference

A				B			
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M6 AGM: Factory Activated

Main Short Code	Bosch PN	10 Hr CAP (Ah)	CCA (Amps) -18C	Length (mm)	Width (mm)	Height (mm)	Cell Layout	Terminal
RBTZ5S	0092M67120	3.5	40	113	70	85	0	A
RBTZ5S-H	0092M67121	4	50	113	70	85	0	A
RBT5A	0092M67122	5	75	120	60	130	0	B
RBTZ6V	0092M67123	5	90	113	70	107	0	A
RBT7A	0092M67124	6	85	113	70	130	0	A
RBTX9A	0092M67125	8	120	151	88	107	1	A
RBT9A	0092M67126	9	130	151	88	107	1	A



M4: Dry Charged with Acid Pack

Main Short Code	Bosch PN	10 Hr CAP (Ah)	CCA (Amps) -18C	Length (mm)	Width (mm)	Height (mm)	Cell Layout	Terminal
BB2.5L-C-2	0092M47030	2.5	19	80	70	105	0	-
BB4L-B	0092M48020	4	45	120	72	90	0	A
6N4-2A-7	0092M47043	4	N/A	71	71	96	1	-
GM5Z-3B	0092M47119	5	63	120	60	130	0	B
12N5-4B	0092M47032	5	40	120	61	130	1	B
BB5L-B	0092M47044	5	65	120	61	130	0	B
BB6L-B	0092M47035	6	50	137	72	95	0	B
BB6.5L-B	0092M47036	6.5	65	138	73	107	0	B
GM7B-4B	0092M47120	7	82	150	60	130	0	B
12N7A-4B	0092M47050	7	90	146	60	130	1	B
12N7A-3A	0092M47031	7	70	150	60	130	0	B
12N7B-4B	0092M47033	7	70	150	60	130	1	B
12N7B-4A	0092M47034	7	70	150	60	130	1	B
12N7-4B	0092M47039	7	74	135	75	133	1	B
12N7-3A	0092M47040	7	74	135	75	133	0	B
12N7B-3A	0092M47042	7	70	150	60	130	0	B
GM7B-4B	0092M47120	7	82	150	60	130	0	B
BB9-B	0092M47045	9	130	135	75	139	1	B
BB9L-B	0092M47046	9	130	135	75	139	0	B

T Series

Commercial Vehicle



Energy Giants on the road

Mass electrical consumptions, long idle times and extreme operating conditions push commercial vehicle batteries to their limit. The new Bosch T series batteries ensure reliable power supply at all times, using advanced technologies to meet various requirements. Maintenance options are available to maximize each batteries' service life - saving fleet operators both time and money.

- ▶ T5 ensures superb cranking capability and endurance for demanding environments
- ▶ T4 reliably supplies all running applications with sufficient energy requirements
- ▶ T3 provides uncompromising starting power for vehicles with low energy demands



	SM T5 Mega Power Duty	SM T4 Mega Power	SD T3 Mega Power
Technology	MF Ca-Ca	MF Ca-Ca	DC Antimony Grid
Positive Grid	PbCa	PbCa	PbSb
Maintenance	Feasible	Maintenance Free	Required
Performance	★★★★	★★	★
Temperature Resistance	★★★★	★★	★
Vibration Resistance	★★★★	★★	★
Service life at 25% DoD	★★★★	★★	★

★ Fair ★★ Good ★★★ Very Good

Technical Specifications

Main Short Code	2nd Short Code	Group Size	Bosch PN	Norm	Capacity (20HR)	CCA Amps @ -18C (BCI/SAE)	RC (Min)	Length (mm)	Width (mm)	Height (mm)	Terminal Type	Cell Layout	BHD
SM T5 Mega Power Duty													
4D-1125	-	4D	0092T47010	BCI	145	1125	305	518	216	248	A	4	B0
4D-1400	-	4D	0092T47011	BCI	200	1400	425	518	216	248	A	4	B0
SM T4 Mega Power													
95E41	N100	E41	0986A00386	JIS	100	730	180	410	175	235	A	1	B7
130E41R	-	E41	0092S47061	JIS	110	800	190	410	172	231	A	1	B0
115F51	N120	F51	0986A00388	JIS	120	820	220	505	183	240	A	4	B7
145G51	N150	G51	0986A00389	JIS	150	950	300	508	222	241	A	4	B0
190H52R	N200R	H52	0092S47037	JIS	200	1130	430	523	279	248	A	3	B0
190H52	N200	H52	0986A00390	JIS	200	1130	430	523	279	248	A	4	B0
190H52-M	N200M	H52	0986A00391	JIS	200	1130	430	523	279	248	A	4	B0
68033	DIN B	B(DIN665)	0092T37028	EN/DIN	180	1100	360	508	222	220	A	4	B0
68032	DIN B	B(DIN665)	0092S37070	EN/DIN	180	1100	360	508	222	220	A	3	B0
31-901	-	31	0092S47044	BCI	100	900	160	330	172	240	A	Center	B0
31-930	-	31	0986A02503	BCI	105	930	190	330	173	240	A	Center	B0
31-930T	-	31	0986A02502	BCI	105	930	190	330	173	240	STUD	Center	B0
8D-1300	-	8D	0092S47036	BCI	210	1300	440	522	275	238	A	4	B0
73011	DIN C	C(DIN710)	0092S37072	EN/DIN	230	1250	430	518	273	241	A	3	B0
SD T3 Mega Power (Dry Charged)													
95E41	-	E41	0092T37003	JIS	100	475	150	410	175	233	A	1	B0
95E41	N100	E41	0092T37049	JIS	100	510	150	410	176	234	A	1	B0
115F51	N120	F51	0092T37050	JIS	120	630	180	505	182	257	A	4	B0
115F51	N120	F51	0092T37004	JIS	120	720	228	505	182	257	A	4	B0
145G51	N150	G51	0092T37051	JIS	150	750	240	508	222	257	A	4	B0
145G51	-	G51	0092T37005	JIS	150	769	294	508	222	238	A	4	B0
145G51(H)	-	G51	0092T37009	JIS	150	769	294	508	222	257	A	4	B0
190H52	-	H52	0092T37006	JIS	200	847	421	521	278	240	A	4	B7
190H52(H)	-	H52	0092T37008	JIS	200	847	421	521	278	270	A	4	B7
190H52	N200	H52	0092T37052	JIS	200	920	370	521	278	270	A	4	B7
73011	DIN C	C(DIN710)	0092S37195	EN/DIN	200	1100	380	521	278	270	A	3	B7

Off Highway

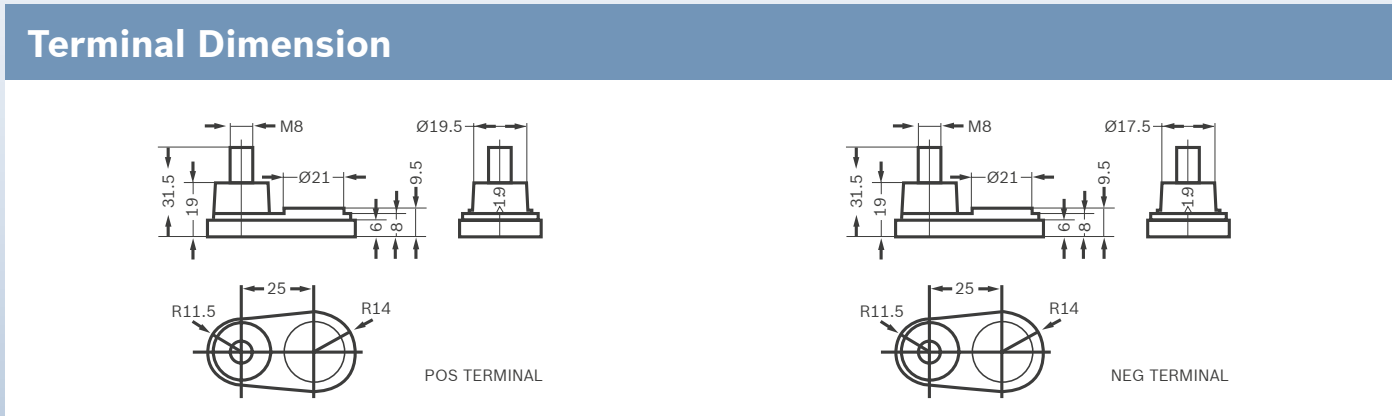
Golf Cart



Bosch golf cart batteries aim for high cycle stability, which guarantee a reliable power supply even on the most challenging course. Specially designed for a varied range of motion applications that require frequent charging and discharging cycles, Bosch golf cart batteries swing in the power you can rely on.

- ▶ Floor machines
- ▶ Electric truck
- ▶ Electric recreational and utility vehicles

Technical Specifications								
Main Short Code	Bosch PN	Voltage	20C Ah	Capacity @ 25a	Capacity @ 56a	Length (mm)	Width (mm)	Total Height (mm)
BG106	0092L57072	6	225	445	115	260	180	279.5
BG876	0092L57073	8	170	295	117	260	180	279.5
BG1275	0092L57074	12	150	280	102	328	180	279.5



Off Highway

Marine



Bosch marine batteries are carefully engineered to provide the optimum balance between starting and deep cycling duties. They are also thoroughly insulated to protect against the high frequency vibrations created by rough sea conditions.

- ▶ HCM is designed for dual purpose to handle both starting and light cycling
- ▶ DCM is designed for heavy duty cycling to have enough cranking amperage for starting and sufficient reserve power to keep the electrical accessories running. 25% longer life for 50% discharge as compared to HCM
- ▶ Watercraft batteries are designed to meet the needs of smaller engines on the sea. It can withstand rugged conditions on the sea with more flexibility on position during the ride

Technical Specifications													
Main Short Code	Bosch PN	Norm	20C Ah	RC	CCA	MCA	CCA/MCA Norm	Length (mm)	Width (mm)	Total Height (mm)	Type	Cell Layout	BHD
			*10Ah										
Water Craft -AGM													
BWC-T16L	0092M67004	JIS	19*	-	260	-	BCI/SAE	175	100	175	B	0	B0
BWC-T20L	0092M67008	JIS	18*	-	310	-	BCI/SAE	175	87	155	B	0	B0
BWC-T30L	0092M67009	JIS	30*	-	385	-	BCI/SAE	165	125	175	B	0	B0
High Cycle Marine (HCM)													
HCM24-600	0092S47057	BCI	65	115	600	750	BCI/SAE	260	172	221	MRN	1	B7
HCM27-750	0092S47058	BCI	90	145	750	940	BCI/SAE	305	172	222	MRN	1	B7
HCM27-750L	0092S47060	BCI	90	145	750	940	BCI/SAE	305	172	222	MRN	0	B7
HCM31-830	0092S47059	BCI	100	180	830	1040	BCI/SAE	330	172	230	MRN	Center	B0
Deep Cycle Marine (DCM)													
DCM24	0092S47074	BCI	70	120	500	625	BCI/SAE	275	172	229	MRN	1	B7
DCM27	0092S47075	BCI	80	145	570	710	BCI/SAE	320	172	229	MRN	1	B7
DCM31	0092S47076	BCI	100	180	625	780	BCI/SAE	330	172	234	MRN	Center	B0

Off Highway

Reserve Power



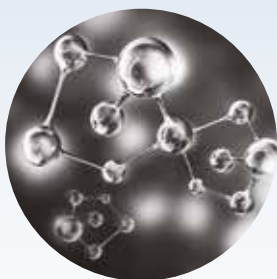
A Reserve Power Battery is developed for cycling purpose as a power bank, such as UPS, security system, solar backup, golf trolleys, telecoms and more. To reserve stable power for a long period of time without recharging, the battery is required to have a deep cycle life performance and a high discharge capacity.

Reserve Power Battery Program (VRLA* type)

- ▶ GEL Deep Cycle
- ▶ AGM Deep Cycle Plus
- ▶ AGM Deep Cycle

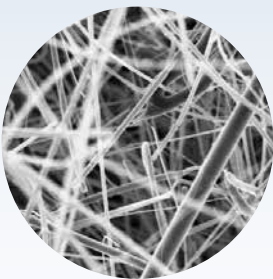
* VRLA (Valve-Regulated Lead Acid)

GEL and AGM technology at a glance	GEL G	AGM A
Maintenance-free design	Yes	Yes
Internal oxygen recombination	Yes	Yes
Spill proof	Yes	Yes
Low self discharge rate	Yes	Yes
Recharging efficiency	Good	Good
Stability of capacity over cycle life	Very Good	Good
Deep Cycle life and resiliency to deep discharge damage	Very Good	Good
Best combination of starting and cycling purpose	Good	Very Good
High current discharge performance	Good	Very Good



What is a GEL Battery?

GEL is produced by homogeneous dispersion of pyrogenic silica in diluted sulfuric acid. Pyrogenic silica is a kind of powder of very well dispersed SiO₂, which can absorb more than 10 times of its weight liquids, producing gel. The battery is locked tightly and has an optimized amount of spill proof electrolyte. It has excellent performance in protecting its components and superior deep discharge property.



What is a AGM Battery?

AGM (Absorbent Glass Mat) battery is one of the leading battery technologies which has a special separator with stored electrolyte that makes it spill proof. It also has a high internal plate compression that can achieve twice the cycle life of a typical flooded battery with the correct application.

GEL Battery



Pure GEL technology

- Long service life for deep cycle & standby applications
- Anti-thermal runaway effect
- Prevents acid stratification



High performance and reliability

- Excellent to recover from deep discharge status
- High charging acceptance
- Suitable for outdoor installation

GEL & AGM Common Advantages



Super excellence in deep cycle service life

- Prevents acid stratification
- High vibration resistance



Spill proof design

- Operates at severe angles
- Air transportable



Long storage life

- Low self discharge rate

AGM Battery



AGM technology

- Extended service life time via efficient gas recombination reaction
- Ideal technology for starting and cycling combination performance



Higher power density

- Excellent to deliver high power
- Low internal resistance

Benefits at a Glance

ABS Container Case

- High vibration resistance
- High mechanical strength

High Quality AGM Separator

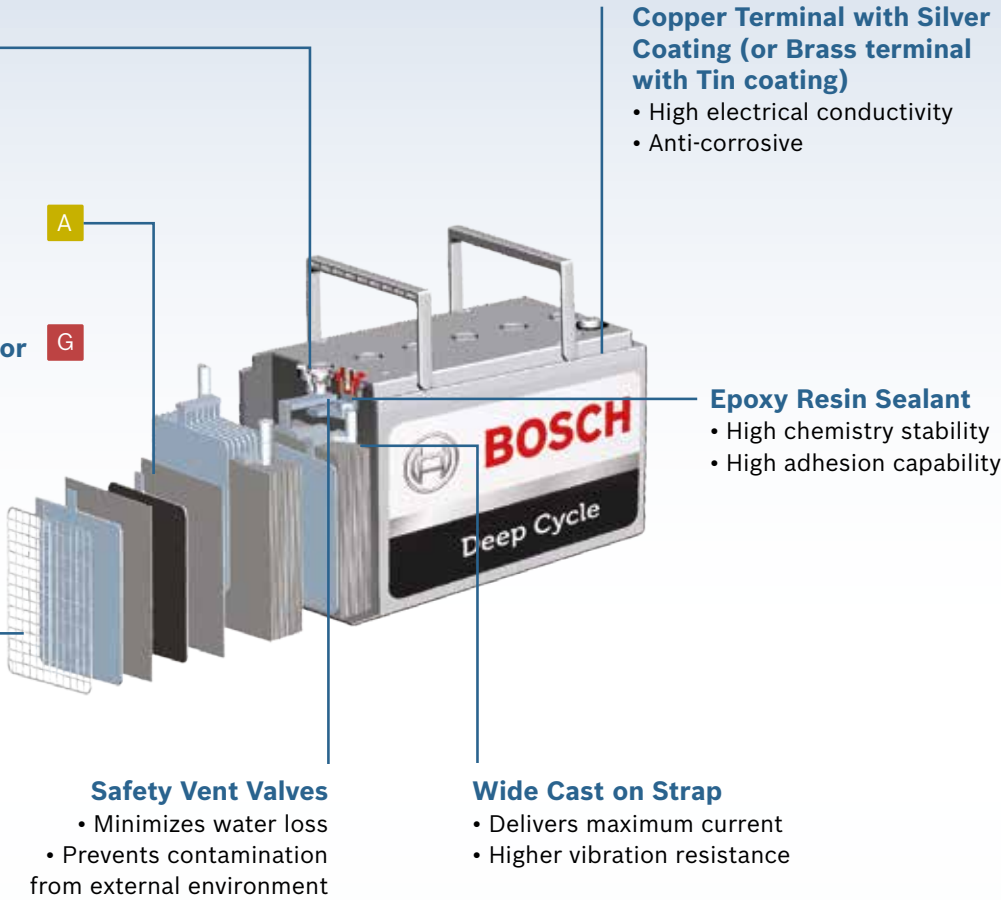
- Prevents micro short circuit
- Enhances longer life time

High Quality PVC-SiO2 Separator

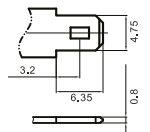
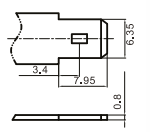
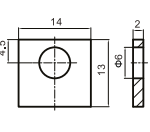
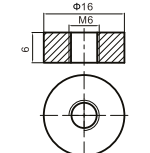
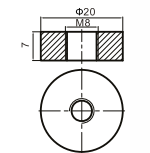
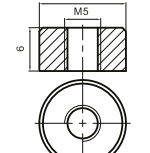
- Enhances longer life time

Bigger Size Grid with Special Alloy Composition

- Maximizes capacity
- Improves deep cycle performance
- Minimizes grid corrosion



Terminal Specification

T1	Copper coated with Silver - FASTON		T2	Copper coated with Silver - FASTON		T3	Brass coated with Tin Torque: 3.9~5.4 N.m	
								
T6	Brass coated with Tin - Threaded Insert 6mm STUD Torque: 3.9~5.4 N.m		T11	Brass coated with Tin - Threaded Insert 8mm STUD Torque: 11 ~14.7 N.m		T12	Brass coated with Tin - Threaded Insert 5mm STUD Torque: 2.0 ~3.0 N.m	
								

Technical Specifications

Main Short Code	Bosch PN	Battery Type	Voltage (V)	C10 Ah	C20 Ah	Length (mm)	Width (mm)	Total Height (mm)	Terminal Type
BA6-4.5	0092L57141	AGM Deep Cycle	6V	4.19	4.5	70	47	106	T1
BA6-7	0092L57164	AGM Deep Cycle	6V	6.51	7	151	34	100	T1
BA6-12	0092L57142	AGM Deep Cycle	6V	11.2	12	151	51	100	T1
BA12-2.9	0092L57143	AGM Deep Cycle	12V	2.9	2.9	79	56	105	T1
BA12-5	0092L57144	AGM Deep Cycle	12V	4.65	5	151	53	99	T1
BA12-5.8	0092L57145	AGM Deep Cycle	12V	5.39	5.8	90	70	107	T1
BA12-5.8T2	0092L57162	AGM Deep Cycle	12V	5.39	5.8	90	70	107	T2
BA12-7T1	0092L57146	AGM Deep Cycle	12V	6.53	7	151	65	99	T1
BA12-7T2	0092L57147	AGM Deep Cycle	12V	6.53	7	151	65	99	T2
BA12-9	0092L57163	AGM Deep Cycle	12V	7.93	9	151	65	99	T2
BA12-12	0092L57165	AGM Deep Cycle	12V	11.2	12	151	98	101	T2
BA12-14	0092L57166	AGM Deep Cycle	12V	13	14	151	98	101	T2
BA12-40	0092L57167	AGM Deep Cycle	12V	38.5	40	255	97	203	T7
BA12-65	0092L57168	AGM Deep Cycle	12V	62.5	65	348	167	178	T6
BA12-100	0092L57169	AGM Deep Cycle	12V	100	104	330	173	220	T11
BAC12-20	0092L57151	AGM Deep Cycle Plus	12V	20	21.4	181.5	77	166.5	T12
BAC12-26	0092L57152	AGM Deep Cycle Plus	12V	26	27.8	166	175	125	T3
BAC12-33	0092L57153	AGM Deep Cycle Plus	12V	33	35.4	195	130	182	T5
BAC12-38FR	0092L57159	AGM Deep Cycle Plus	12V	38	40.7	197	165	170	T6
BAC12-55	0092L57154	AGM Deep Cycle Plus	12V	55	59	228	137	216	T6
BAC12-75	0092L57155	AGM Deep Cycle Plus	12V	75	80.4	259	168	214	T6
BAC12-75FR	0092L57160	AGM Deep Cycle Plus	12V	75	80.4	259	168	214	T6
BAC12-100R	0092L57156	AGM Deep Cycle Plus	12V	93	100	305	168	213	T6
BAC12-120RFR	0092L57161	AGM Deep Cycle Plus	12V	112	120	330	173	220	T11
BAC12-150	0092L57157	AGM Deep Cycle Plus	12V	150	160.8	483	170	238.5	T11
BAC12-200	0092L57158	AGM Deep Cycle Plus	12V	200	214.4	522	240	224	T11
BG12-100	0092L57140	Gel Deep Cycle	12V	90	96	330	173	220	T11
BG12-38	0092L67000	Gel Deep Cycle	12V	35.3	38	197	165	170	T6
BG12-70	0092L67001	Gel Deep Cycle	12V	65.1	70	259	168	214	T6
BG12-100	0092L67002	Gel Deep Cycle	12V	90	96	330	173	218	T11
BG12-135	0092L67003	Gel Deep Cycle	12V	125.6	135	485	170	240	T11
BG12-200	0092L67004	Gel Deep Cycle	12V	186	200	522	240	224	T11
BG12-240	0092L67005	Gel Deep Cycle	12V	219	240	522	268	226	T11

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