



A real boost for your business

Bosch Batteries

 **BOSCH**
Invented for life

A real boost for your business

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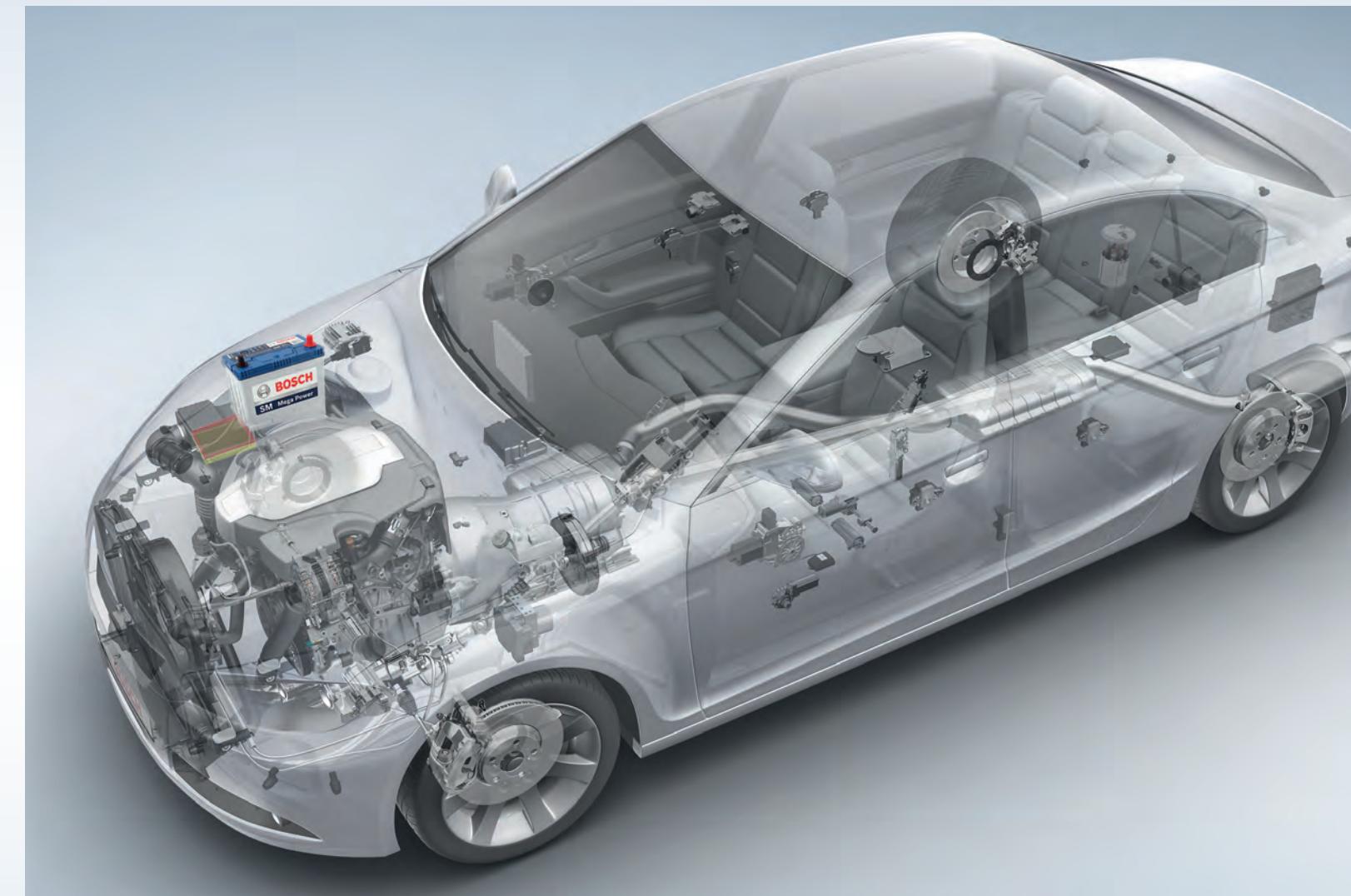
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Full Starting Power with Bosch Batteries



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 profile and requirement. 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 AMS	Auxiliary
Segmentation	ST	ST	AM	AGM
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	Mercedes Benz with dual battery system. Provides backup power in case of emergency
Technology	Absorbent Glass Mat (AGM) ★★★★★	Enhanced Flooded Battery (EFB) ★★★★★	Alternator Management System (AMS) ★★★★★	Absorbent Glass Mat (AGM) ★★★★★
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	AGM technology offers long service life and is highly resilient to deep discharges
Maintenance Free	✓	✓	✓	✓

Mega Power Silver	Mega Power Lite	Mega Power	Mega Power (Dry Charged)
SM	SM	SM	SD
Modern vehicles with sophisticated built-in electronic features	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
Calcium-Silver Technology ★★★	Silver Coated Technology ★★★	Calcium-Calcium Technology ★★	Lead Antimony ★
High corrosion resistance with increased service life	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
✓	✓	✓	

ST Hightec AGM

Passenger Car

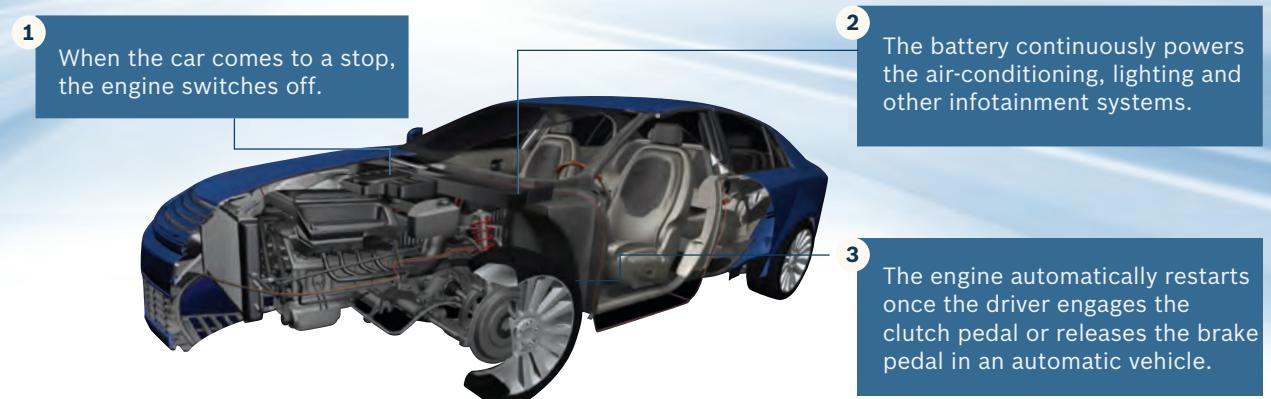


AGM technology for Advanced Start-Stop systems

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.

How Start-Stop Technology Works



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.

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



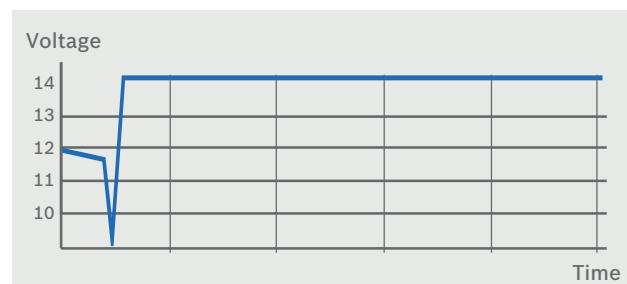
Centralized Grid Lug / Fine Mesh Grid

- 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

Load Diagram

Battery in conventional vehicle

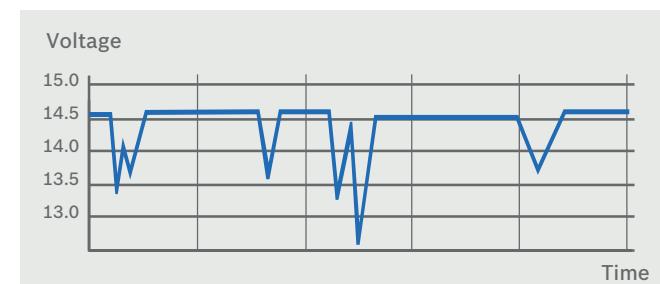
The battery requirements from charge / discharge cycles are in the "normal" range.



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

AM Hightec 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 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.



Fully Charged Battery

AMS automatically disengages the alternator.



Acceleration

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

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.

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

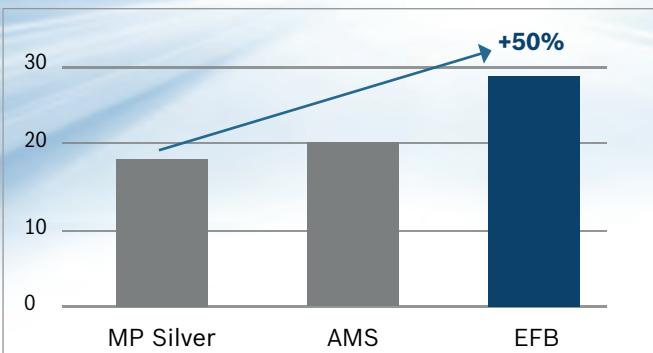
- Small-sized windows of the expanded grid reduces resistance and increases conductivity for consistent high performance



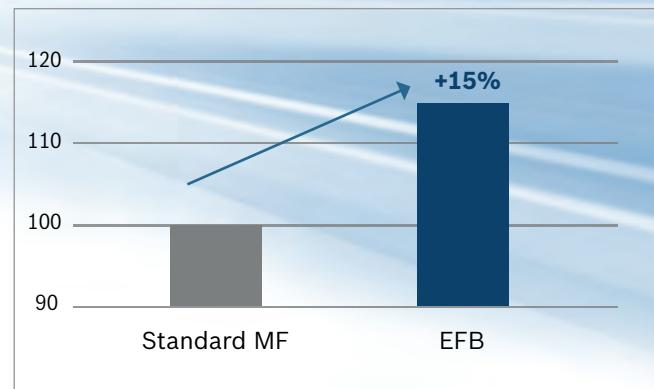
Eco Friendly

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

Charging Acceptance



Life Cycle



Battery Short Code Reference

SBA S0101
For Idling Stop System(ISS)

M - 42 R
1 2 3

JIS D5301
For Non-ISS System

60 B20 R
2 1 3

- 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
B19L B19R		K	K-42 K-42R	D31L D31R	T
B20L B20R		M	M-42 M-42R	E41L E41R	U
B24L B24R		N	N-55 N-55R	F51	V
D20L D20R		P		G51	W
D23L D23R		Q	Q-85 Q-85R	H52	X

Comparison Across Flooded Batteries

Product	MP Silver	Hightec AMS	Hightec EFB
Vehicle technology	Standard MF	AMS Tropical	EFB Tropical
Energy flow characteristic			
Charging acceptance	★	★★	★★★
Price index	\$	\$\$	\$\$\$

★ Fair

\$ Very economical

★★ Good

\$\$ Economical

★★★ Very Good

\$\$\$ Premium

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



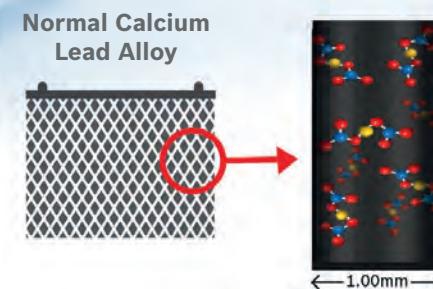
Assured Safety

- 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

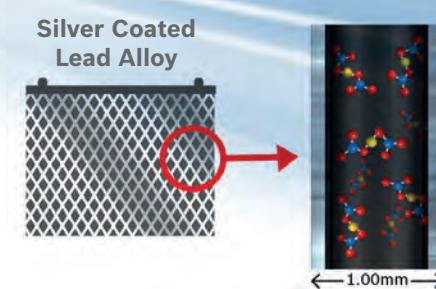
Silver-coated Expanded Grid

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

Normal Battery



MPL Battery

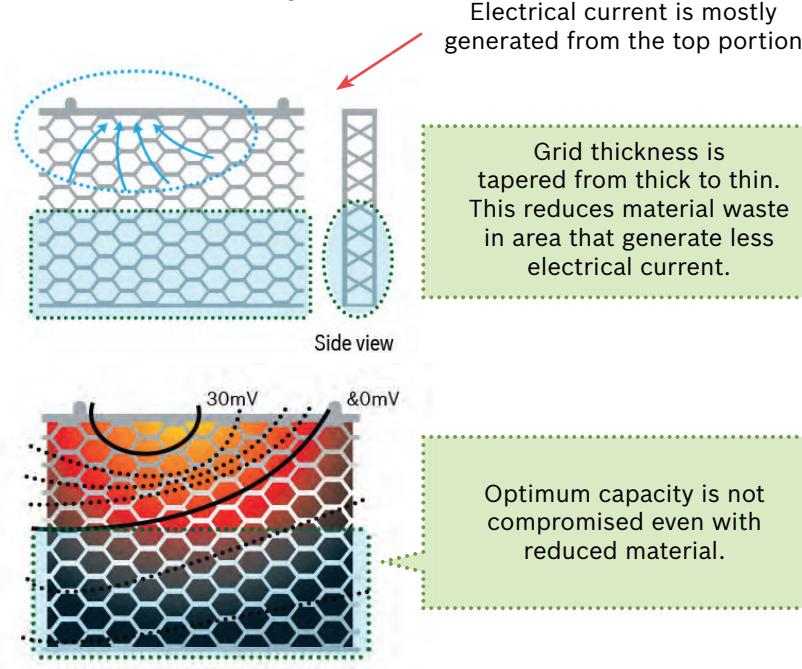


Silver-coated expanded grid enhances battery life without adding excessive weight. This is done by embedding a layer of Silver alloy onto the surface of the grid.

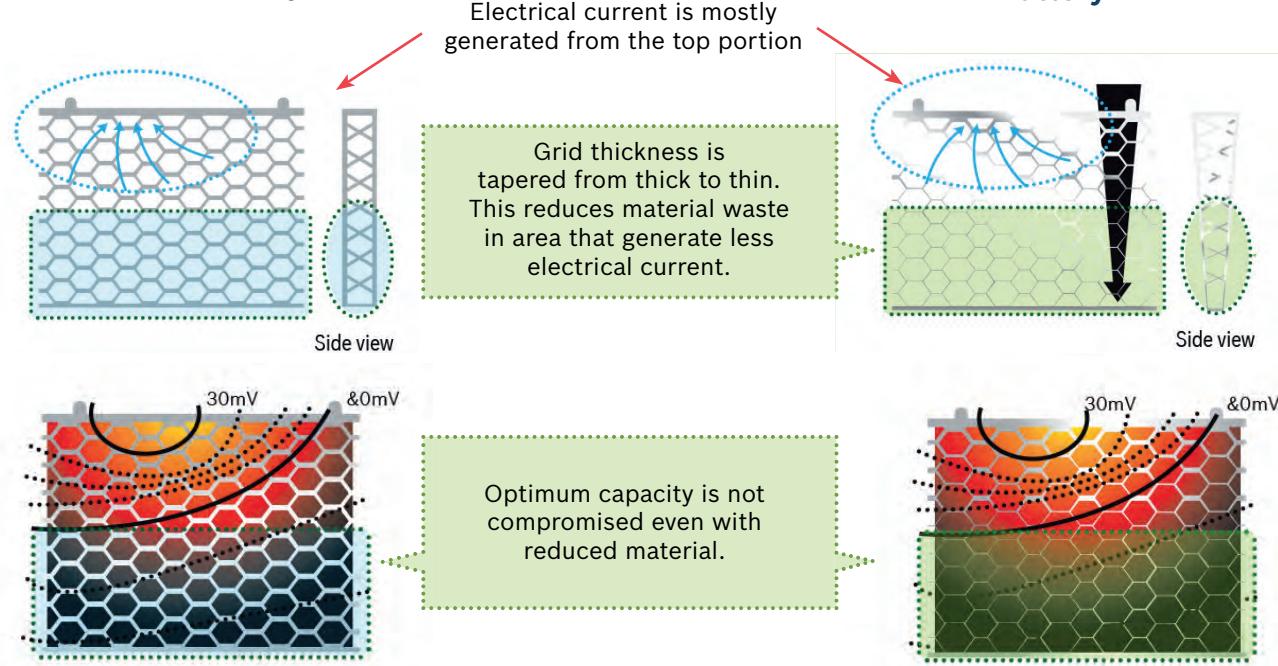
Reduction of Weight

Optimized Performance: Reduction of weight using thinner grids

Normal Battery



MPL Battery



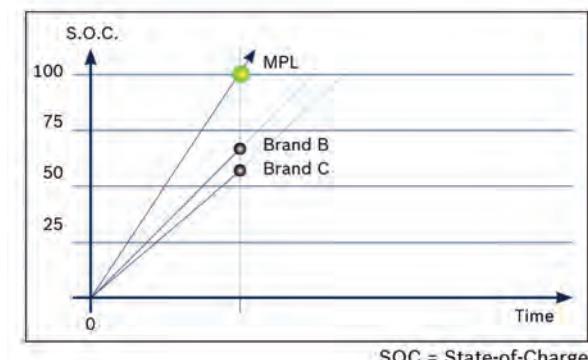
Micrograin

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

Normal Battery



MPL Battery



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

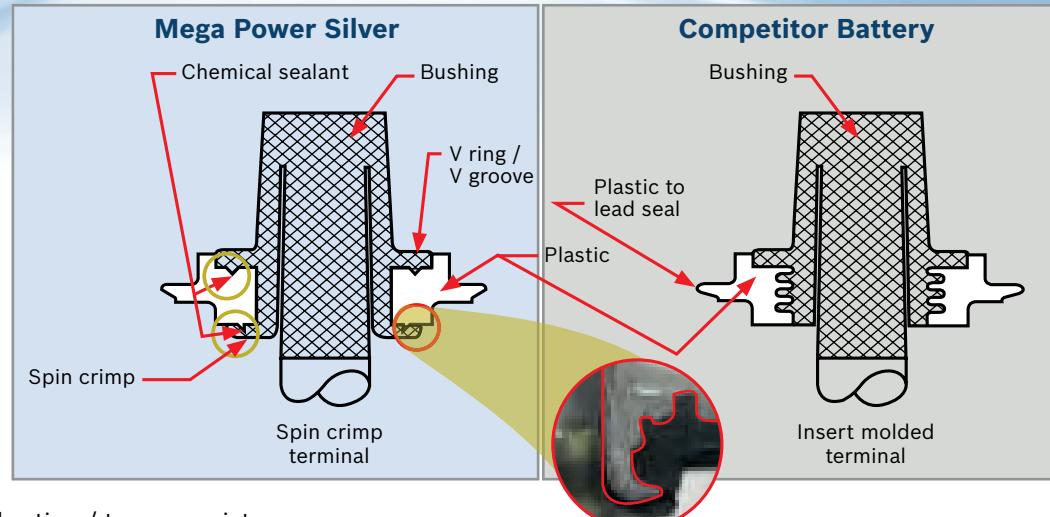


Assured Safety

- 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

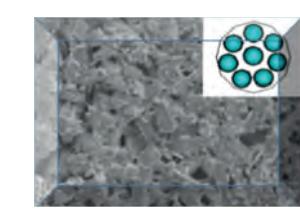
Optimized power: Mega Power Silver batteries are designed with high density active material in special crystal structure. Provides better conductivity and high performance during cranking

Battery Size

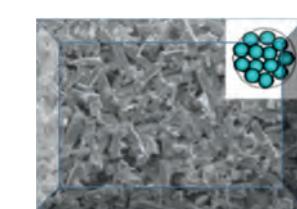
B19	
B24	
D23	
D26	
D31	

Battery Model

55B19
75B24
95D23
115D26
135D31



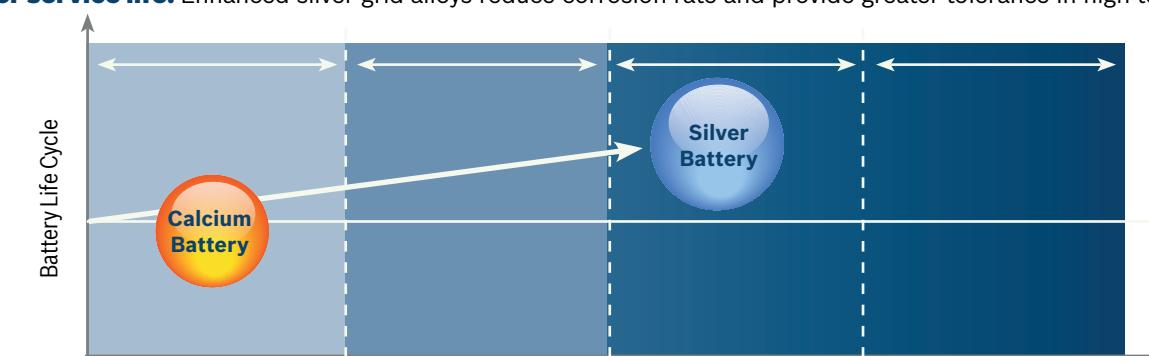
General Product



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

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

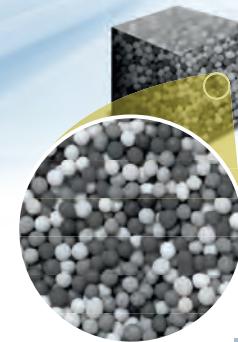


Assured Safety

- 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

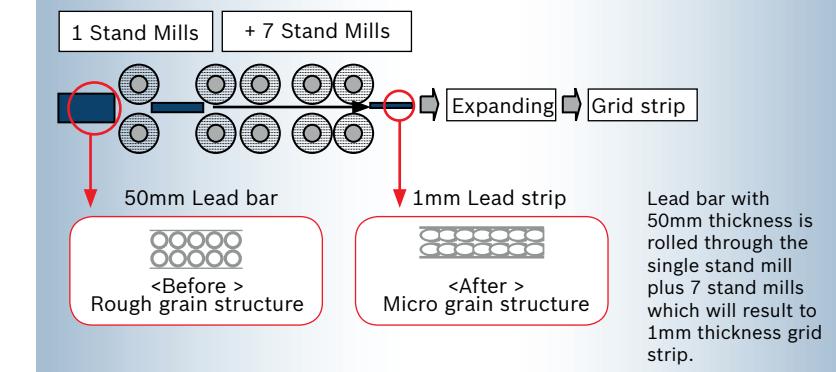
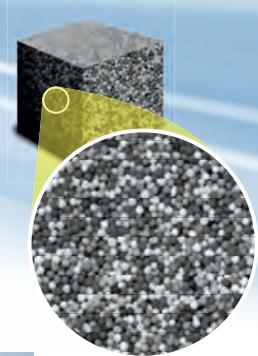


Grid corrosion status after 1 year



Normal grid

Mega Power
micro grain grid

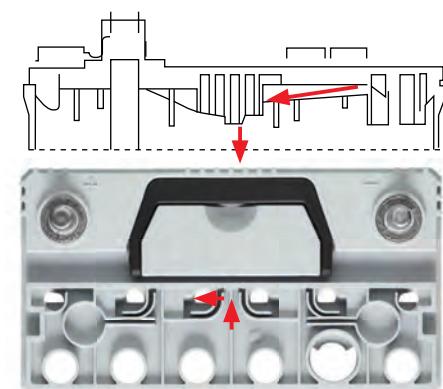
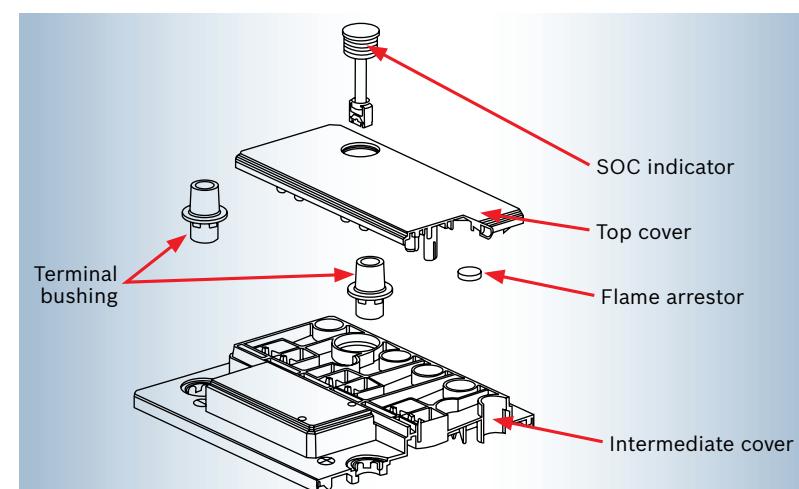


- ▶ High heat resistance
- ▶ Lead-calcium (high purity lead 99.99% grade)

- ▶ 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

Passenger Car

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

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

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
DIN LN1	-	LN1	0092S67050	DIN	50	560	80	206	174	189	A	0	B3
DIN LN2	-	LN2	0092S67051	DIN	60	680	100	241	174	189	A	0	B3
DIN LN3	-	LN3	0092S67052	DIN	70	760	120	276	174	189	A	0	B3
DIN LN4	-	LN4	0092S67053	DIN	80	800	140	314	174	189	A	0	B3
DIN LN5	-	LN5	0092S67054	DIN	95	900	160	352	174	189	A	0	B3

AM Hightec 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	0092S67070	JIS	43	400	61	186	122	224	B	0	B0
55B19R	B19	0092S67071	JIS	43	400	61	186	122	224	B	1	B0
75B24L	B24	0092S67072	JIS	58	510	90	237	122	224	B	0	B0
75B24R	B24	0092S67073	JIS	58	510	90	237	122	224	B	1	B0
95D23L	D23	0092S67074	JIS	70	650	116	229	172	222	A	0	B7
95D23R	D23	0092S67075	JIS	70	650	116	229	172	222	A	1	B7
105D26L	D26	0092S67076	JIS	75	630	140	260	172	222	A	0	B7
105D26R	D26	0092S67077	JIS	75	630	140	260	172	222	A	1	B7
130D31L	D31	0092S67078	JIS	94	780	170	297	172	222	A	0	B7
130D31R	D31	0092S67079	JIS	94	780	170	297	172	222	A	1	B7

ST Hightec EFB

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
Q85(95D23L)	D23	0092S67080	JIS	65	620	115	229	172	222	A	0	B7

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	B	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	B	1	B0

SM Mega Power Lite (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
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	DIN	44	360	70	212	175	192	A	0	B13
56225	-	H5/LN2	0092S47213	DIN	62	480	90	245	175	192	A	0	B13
57428	-	H6/LN3	0092S47214	DIN	74	540	110	275	175	192	A	0	B13
58815	-	H8/LN5	0092S47215	DIN	88	550	150	355	175	192	A	0	B0
60038	-	H8/LN5	0092S47216	DIN	100	605	165	355	175	192	A	0	B0

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	122	224	B	0	B0
46B20LS	B20	0092S57022	JIS	45	370	63	197	129	227	A	0	B0
46B20R	B20	0092S57021	JIS	45	370	63	196	122	224	B	1	B0</

Technical Specifications

Passenger Car

SM Mega Power

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
32C24L	C24	0986A02631	JIS	35	330	57	238	129	225	A	0	B0
32C24R	C24	0986A02630	JIS	35	330	57	238	129	225	A	1	B0
38B19L	B19	0092S37443	JIS	35	280	52	186	122	224	B	0	B0
38B19R	B19	0092S37457	JIS	35	280	52	186	122	224	B	0	B0
40B19L	B19	0986A00404	JIS	35	330	57	187	127	226	B	0	B0
40B19L-BHD	B19	0092S37077	JIS	35	330	57	187	127	226	B	0	B1
40B19R	B19	0986A00405	JIS	35	330	57	187	127	226	B	1	B0
40B19R-BHD	B19	0092S37078	JIS	35	330	57	187	127	226	B	1	B1
42B20L	B20	0092S47020	JIS	38	340	52	196	122	224	B	0	B0
42B20LS	B20	0092S47022	JIS	38	340	52	197	129	227	A	0	B0
42B20R	B20	0092S47021	JIS	38	340	52	196	122	224	B	1	B0
42B20RS	B20	0092S47023	JIS	38	340	52	197	129	227	A	1	B0
46B24L	B24	0986A00363	JIS	42	400	70	238	129	225	B	0	B0
46B24L-BHD	B24	0092S37079	JIS	42	400	70	238	129	225	B	0	B1
46B24LS	B24	0986A00365	JIS	42	400	70	238	129	225	A	0	B0
46B24LS-BHD	B24	0092S37081	JIS	42	400	70	238	129	225	A	0	B1
46B24R	B24	0986A00362	JIS	42	400	70	238	129	225	B	1	B0
46B24R-BHD	B24	0092S37080	JIS	42	400	70	238	129	225	B	1	B1
46B24RS	B24	0986A00364	JIS	42	400	70	238	129	225	A	1	B0
46B24RS-BHD	B24	0092S37082	JIS	42	400	70	238	129	225	A	1	B1
48D26L	D26	0986A00373	JIS	50	420	80	260	173	222	A	0	B0
48D26R	D26	0986A00372	JIS	50	420	80	260	173	222	A	1	B0
55B24L	B24	0092S37444	JIS	45	430	80	237	122	224	B	0	B0
55B24L	B24	0986A00406	JIS	45	430	76	238	129	225	B	0	B0
55B24L-BHD	B24	0092S37083	JIS	45	430	76	238	129	225	B	0	B1
55B24LS	B24	0092S37452	JIS	45	430	80	237	122	224	A	0	B0
55B24LS	B24	0986A00408	JIS	45	430	76	238	129	225	A	0	B0
55B24LS-BHD	B24	0092S37085	JIS	45	430	80	238	129	225	A	0	B1
55B24R	B24	0092S37445	JIS	45	430	80	237	122	224	B	1	B0
55B24R	B24	0986A00407	JIS	45	430	76	238	129	225	B	1	B1
55B24R-BHD	B24	0092S37084	JIS	45	430	76	238	129	225	B	1	B1
55B24RS	B24	0092S37453	JIS	45	430	80	237	122	224	A	1	B0
55B24RS	B24	0986A00409	JIS	45	430	76	238	129	225	A	1	B0
55B24RS-BHD	B24	0092S37086	JIS	45	430	76	238	129	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
55D23R	D23	0986A00368	JIS	60	500	100	232	173	225	A	1	B0

SM Mega Power (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
55D23R-BHD	D23	0092S37088	JIS	60	500	100	232	173	225	A	1	B1
55D26L	D26	0986A00415	JIS	60	500	100	260	173	222	A	0	B0
55D26L-BHD	D26	0092S37091	JIS	60	500	100	260	173	222	A	0	B1
55D26R	D26	0986A00414	JIS	60	500	100	260	173	222	A	1	B0
55D26R-BHD	D26	0092S37092	JIS	60	500	100	260	173	222	A	1	B1
65B24L	B24	0092S47024	JIS	52	480	82	237	122	224	B	0	B0
65B24LS	B24	0092S47026	JIS	52	480	82	237	122	224	A	0	B0
65B24R	B24	0092S47025	JIS	52	480	82	237	122	224	B	1	B0
65B24RS	B24	0092S47027	JIS	52	480	82	238	129	227	A	1	B0
65D31L	D31	0986A00379	JIS	65	560	108	303	173	225	A	0	B0
65D31R	D31	0986A00378	JIS	65	560	108	303	173	225	A	1	B0
75D23L	D23	0092S37446	JIS	65	520	112	229	172	222	A	0	B7
75D23R	D23	0092S37458	JIS	65	520	112	229	172	222	A	0	B7
75D31L	D31	0092S37454	JIS	70	530	120	302	172	222	A	0	B7
75D31L-BHD	D31	0092S37095	JIS	75	640	130	303	173	225	A	0	B0
75D31R	D31	0092S37455	JIS	70	530	120	302	172	222	A	1	B7
75D31R	D31	0986A00416	JIS	75	640	130	303	173	225	A	1	B0
75D31R-BHD	D31	0092S37096	JIS	75	640	130	303	173	225	A	1	B1
80D23L	D23	0092S47028	JIS	70	560	120	229	172	222	A	0	B7
80D23L	D23	0986A00410	JIS	70	580	115	232	173	225	A	0	B0
80D23L-BHD	D23	0092S37089	JIS	70	580	115	232	173	225	A	0	B1
80D23R	D23	0092S47029	JIS	70	560	120	229	172	222	A	1	B7
80D23R	D23	0986A00411	JIS	70	580	115	232	173	225	A	1	B0
80D23R-BHD	D23	0092S37090	JIS	70	580	115	232	173	225	A	1	B1
80D26L	D26	0092S37447	JIS	70	600	115	260	172	222	A	0	B7
80D26L	D26	0986A00377	JIS	7								

Technical Specifications

Passenger Car

SM Mega Power (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
95D31R	D31	0986A00382	JIS	85	730	145	303	173	225	A	1	B0
95D31R-BHD	D31	0092S37098	JIS	85	730	145	303	173	225	A	1	B1
105D31L	D31	0092S47032	JIS	90	710	160	302	172	222	A	0	B7
105D31R	D31	0092S47033	JIS	90	710	160	302	172	222	A	1	B7
130E41R	E41	0092S47061	JIS	110	800	190	391	172	231	A	0	B0
31-901	31	0092S47044	BCI	100	900	160	330	172	240	A	18	B0
31-930	31	0986A02503	BCI	105	930	190	330	173	240	A	18	B0
31-930T	31T	0986A02502	BCI	105	930	190	330	173	240	STUD	18	B0
34-550	34	0986A02500	BCI	52	550	86	260	171	205	A	10	B1
58-530	58	0986A02504	BCI	52	530	88	236	183	177	A	26	B8
65-660	65	0986A02505	BCI	70	660	120	292	189	191	A	11	B8
65-7MF	65	0092S47045	BCI	85	850	160	302	189	191	A	11	B8
75-615	75	0986A02507	BCI	56	600	93	231	179	185	SIDE	17	B1
78-760	78	0986A02510	BCI	69	750	115	260	179	185	SIDE	17	B1
78DT-760	78	0986A02512	BCI	69	750	115	260	179	205	DUAL	1	17
8D-1300	8D	0092S47036	BCI	210	1300	440	490	275	238	A	0	B0
M27	27	0092S47034	BCI	105	570	160	320	172	229	MRN	1	B7
S2000	-	0092S47035	BCI	100	580	180	330	173	239	STUD	18	B0
54519	T5/LB2	0986A00216	DIN	45	420	78	245	175	175	A	0	B4
55046	T5/LB2	0092S47038	DIN	50	480	85	242	175	175	A	0	B3
55414	T6/LB3	0986A00403	DIN	54	500	94	277	175	175	A	0	B3/B4
55559	H5/LN2	0986A00223	DIN	55	460	94	245	175	190	A	0	B3
55565	H5/LN2	0986A00224	DIN	55	460	94	245	175	190	A	1	B3
56219	H5/LN2	0986A00242	DIN	62	510	100	245	175	190	A	0	B3
56318	T6/LB3	0986A00225	DIN	63	580	110	277	175	175	A	0	B3/B4
56637	T6/LB3	0092S47041	DIN	66	510	110	264	175	175	A	0	B1
56638	H6/LN3	0986A00228	DIN	66	560	110	278	175	190	A	0	B3
57220	H6/LN3	0986A00234	DIN	72	610	120	278	175	190	A	0	B3
58014	T7/LB4	0986A00413	DIN	80	730	135	315	175	175	A	0	B3
58513	H8/LN5	0986A00243	DIN	80	680	140	303	173	225	A	0	B0
58514	H8/LN5	0986A00244	DIN	80	680	140	303	173	225	A	1	B0
58827	H8/LN5	0986A00236	DIN	88	760	150	353	175	190	A	0	B3
59218	H8/LN5	0092S47042	DIN	92	640	170	354	175	190	A	0	B3
60038	H8/LN5	0092S47043	DIN	100	800	180	353	175	190	A	0	B3
60044	H8/LN5	0092S37073	DIN	100	850	180	353	175	190	A	0	B3

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
32B20R	NS40	B20	0092S37058	B	32	240	38	187	127	227	B	1	B0
36B20L	NS40ZL	B20	0092S37031	B	35	270	39	187	127	227	B	0	B0
36B20R	NS40Z	B20	0092S37030	B	35	270	39	187	127	227	B	1	B0
46B24L	NS60L	B24	0092S37033	B	45	320	56	238	129	227	B	0	B0
46B24LS	NS60LS	B24	0092S37035	B	45	320	56	238	129	227	A	0	B0
46B24R	NS60	B24	0092S37032	B	45	320	56	238	129	227	B	1	B0
46B24RS	NS60S	B24	0092S37034	B	45	320	56	238	129	227	A	1	B0
48D26L	N50L	D26	0092S37039	B	50	270	72	260	173	225	A	0	B0
48D26R	N50	D26	0092S37038	B	50	270	72	260	173	225	A	1	B0
55D23L	55D23L	D23	0092S37037	B	60	350	74	232	173	225	A	0	B0
55D23R	55D23R	D23	0092S37036	B	60	350	74	232	173	225	A	1	B0
55D26L	N50ZL	D26	0092S37041	B	60	340	82	260	173	225	A	0	B0
55D26R	N50Z	D26	0092S37040	B	60	340	82	260	173	225	A	1	B0
65D26L	NS70L	D26	0092S37043	B	65	410	89	260	173	225	A	0	B0
65D26R	NS70	D26	0092S37042	B	65	410	89	260	173	225	A	1	B0
65D31R	N70	D31	0092S37044	B	70	380	97	306	173	225	A	1	B0
75D31L	N70ZL	D31	0092S37046	B	75	440	116	306	173	225	A	0	B0
75D31R	N70Z	D31	0092S37045	B	75	440	116	306	173	225	A	1	B0
80D26L	NX110-5L	D26	0092S37057	B	68	580	103	260	173	225	A	0	B0
80D26R	NX110-5R	D26	0092S37056	B	68	580	103	260	173	225	A	1	B0
95D31L	NX120-7L	D31	0092S37048	B	80	620	125	306	173	225	A	0	B0
95D31R	NX120-7	D31	0092S37047	B	80	620	125	306	173	225	A	1	B0
95E41	N100	E41	0092T37049	B	100	510	150	410	176	234	A	1	B0
115F51	N120	F51	0092T37050	B	120	630	180	505	182	257	A	1	B0
145G51	N150	G51	0092T37051	B	150	750	240	508	222	257	A	1	

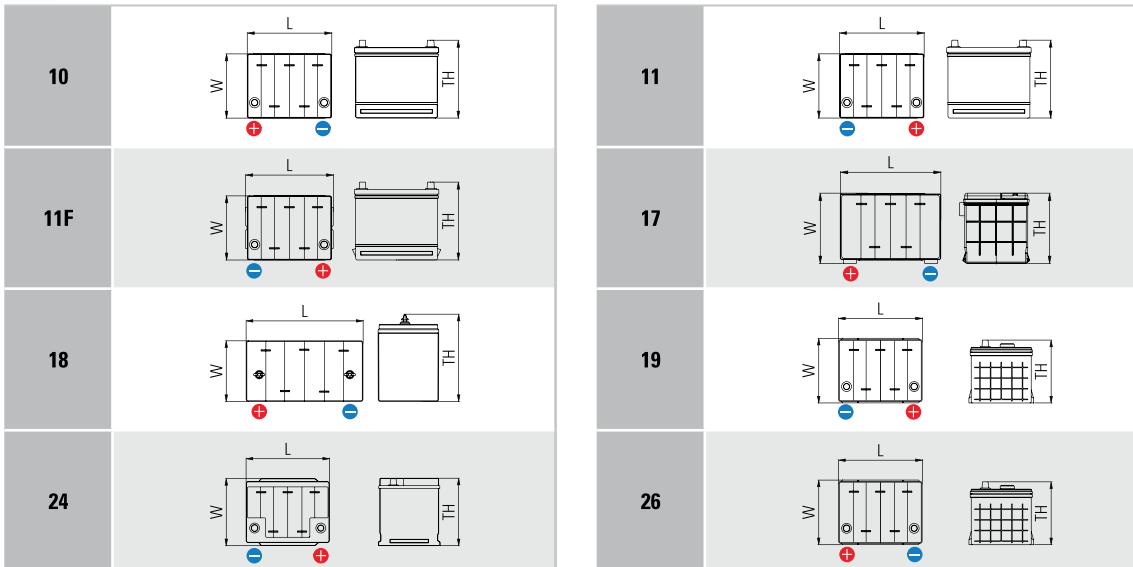
Technical Specifications

Passenger Car

Layout for JIS and DIN



Layout for BCI

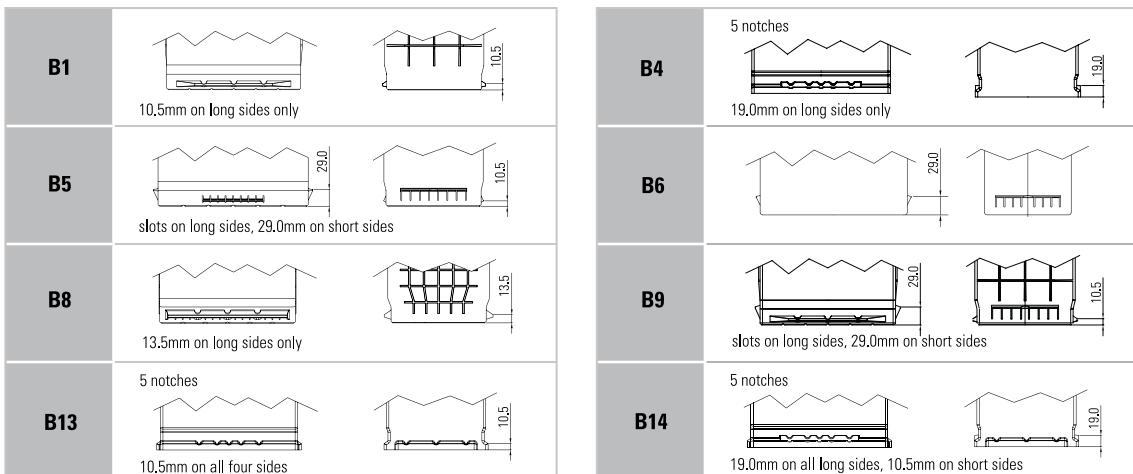


Terminals

Terminal	A (Standard)	B (Small)	Top Post	Dual Fit	4F	Stud	Side
Positive							
Negative							

* DT: Dual Terminal (Standard + Side)

Hold-down



* For B0 there is no Hold-down

2014
ST Hightec AGM and EFB batteries revolutionize the fast-growing start-stop technology in the market

1990
Launch of new batteries designed with labyrinth lid

1980
Introduction of 100% maintenance-free batteries, according to DIN V43539
Beginning of lead-calcium technology

1970
Introduction of low-maintenance batteries for passenger vehicles

1927
Production of batteries for passenger cars

1922
Production of batteries for motorcycles starts in Stuttgart, Feuerbach

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



Optimal Performance

Unique grid design

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



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



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



M6 AGM: Factory Activated

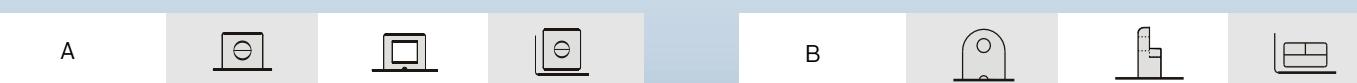
Main Short Code	Bosch PN	10 Hr CAP (Ah)	CCA (Amps) -18C	Length	Width	Height	Cell Layout	Terminal
RBTZ5S	0092M67120	3.5	40	113	70	85	0	A
RBTZ5S-H	0092M67121	4	50	113	70	85	0	A
RBT5A	0092M67122	5	75	120	60	130	0	B
RBTZ6V	0092M67123	5	90	113	70	107	0	A
RBT7A	0092M67124	6	85	113	70	130	0	A
RBTX9A	0092M67125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

Technical Specifications

M6: AGM Bottle Separate (BS)

Main Short Code	Bosch PN	10 Hr CAP (Ah)	CCA (Amps) -18C	Length	Width	Height	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



M4: Dry Charged with Acid Pack

Main Short Code	Bosch PN	10 Hr CAP (Ah)	CCA (Amps) -18C	Length	Width	Height	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	Width	Height	Terminal Type	Cell Layout	BHD
SM T5 Mega Power Duty													
4D-1125	-	4D	0092T47010	BCI	145	1125	305	518	216	248	A	0	B0
4D-1400	-	4D	0092T47011	BCI	200	1400	425	518	216	248	A	0	B0
SM T4 Mega Power													
95E41	N100	E41	0986A00386	JIS	100	730	180	410	175	235	A	1	B7
31-901	-	31	0092S47044	BCI	100	900	160	330	172	240	A	18	B0
31-900	-	31	0092S37156	BCI	100	900	160	330	172	240	A	18	B3
31-900T	-	31	0092S37157	BCI	100	900	160	330	172	240	STUD	18	B0
130E41R	-	E41	0092S47061	JIS	110	800	190	391	172	231	A	0	B0
115F51	N120	F51	0986A00388	JIS	120	820	220	505	183	240	A	1	B7
150F51	N120	F51	0092S47062	JIS	135	1005	245	503	182	231	A	0	B0
145G51	N150	G51	0986A00389	JIS	150	950	300	508	222	241	A	1	B0
165G51	N150	G51	0092S47063	JIS	150	1050	300	507	213	231	A	0	B0
68033	DIN B	B(DIN665)	0092T37028	DIN	180	1100	360	508	222	220	A	0	B0
68032	DIN B	B(DIN665)	0092S37070	DIN	180	1100	360	508	222	220	A	1	B0
190H52	-	H52	0092S47037	JIS	200	1000	430	490	275	238	A	1	B0
190H52	N200	H52	0986A00390	JIS	200	1200	430	523	279	248	A	1	B0
8D-1300	-	8D	0092S47036	BCI	210	1300	440	490	275	238	A	0	B0
8D-1300	N200R	8D	0092S47064	BCI	210	1300	440	510	275	238	B	1	B0
8D-1300	N200L	8D	0092S47036	BCI	210	1300	440	510	275	238	A	0	B0
73011	DIN C	C(DIN710)	0092S37072	DIN	230	1250	430	518	273	241	A	0	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	1	B0
115F51	N120	F51	0092T37004	JIS	120	720	228	505	182	257	A	1	B0
145G51	N150	G51	0092T37051	JIS	150	750	240	508	222	257	A	1	B0
145G51	-	G51	0092T37005	JIS	150	769	294	508	222	238	A	1	B0
145G51(H)	-	G51	0092T37009	JIS	150	769	294	508	222	257	A	1	B0
190H52	-	H52	0092T37006	JIS	200	847	421	521	278	240	A	1	B7
190H52(H)	-	H52	0092T37008	JIS	200	847	421	521	278	270	A	1	B7
190H52	N200	H52	0092T37052	JIS	200	920	370	521	278	270	A	1	B7
73011	DIN C	C(DIN710)	0092S37195	DIN	200	1100	380	521	278	270	A	1	B7

Off Highway / Golf Cart

Off Highway / Marine



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



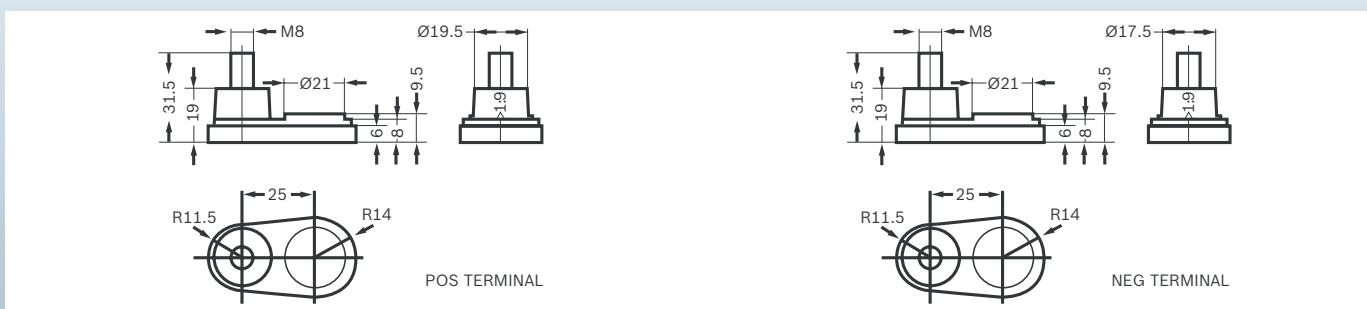
Bosch marine batteries are carefully engineered to provide the optimum balance between starting and deep cycling duties. They are also thoroughly insulated to protect against the high frequency vibrations created by rough sea conditions.

- ▶ 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	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

Terminal Dimension



Technical Specifications

Main Short Code	Bosch PN	Norm	20C Ah *10Ah	RC	CCA	MCA	CCA/MCA Norm	Length (mm)	Width (mm)	Total Height (mm)	Type	Cell Layout	BHD
High Cycle Marine (HCM)													
HCM24	0092S37024	BCI	82	140	600	730	BCI/SAE	260	176	225	BCI	1	B7
HCM27	0092S37025	BCI	95	160	680	810	BCI/SAE	304	173	225	BCI	1	B7
HCM31	0092S37026	BCI	110	200	830	960	BCI/SAE	330	173	240	BCI	18	B0
Deep Cycle Marine (DCM)													
DCM24	0092S47074	BCI	70	120	500	625	BCI/SAE	275	172	229	BCI	1	B7
DCM27	0092S47075	BCI	80	145	570	710	BCI/SAE	320	172	229	BCI	1	B7
DCM31	0092S47076	BCI	100	180	625	780	BCI/SAE	330	172	234	BCI	18	B0
Water Craft - AGM													
BWC-T16L	0092M67004	JIS	19*	-	260	-	BCI/SAE	175	100	175	JIS	0	B0
BWC-T20L	0092M67008	JIS	18*	-	310	-	BCI/SAE	175	87	155	JIS	0	B0
BWC-T30L	0092M67009	JIS	30*	-	385	-	BCI/SAE	165	125	175	JIS	0	B0

Off Highway

Reserve Power



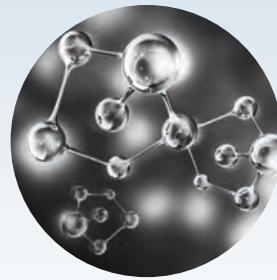
A Reserve Power Battery is developed for cycling purpose as a power bank, such as UPS, security system, solar backup, golf trolleys, telecoms and more. To reserve stable power for a long period of time without recharging, the battery is required to have a deep cycle life performance and a high discharge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

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



High performance and reliability

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



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

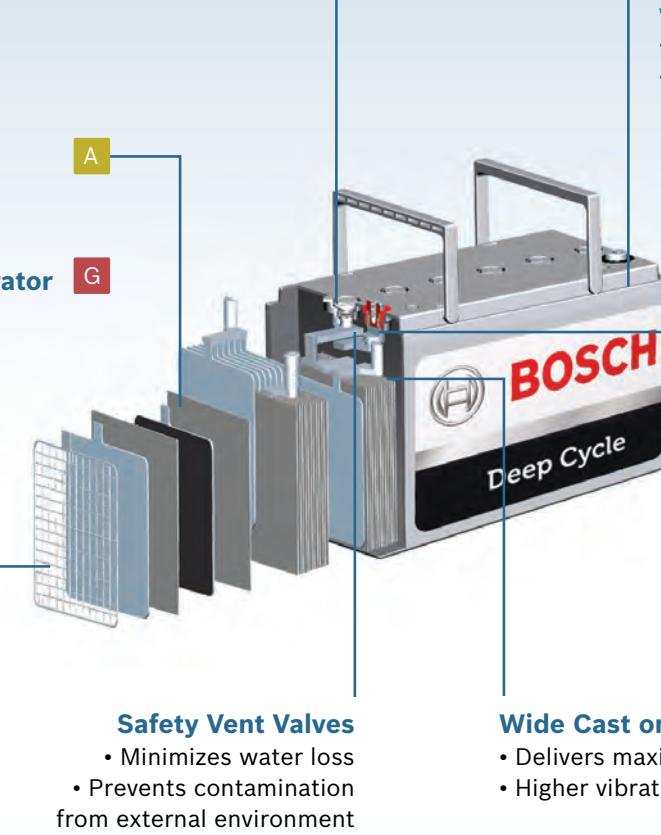
- Prevents micro short circuit
- Enhances longer life time

High Quality PVC-SiO₂ Separator

- Enhances longer life time

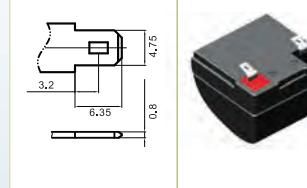
Bigger Size Grid with Special Alloy Composition

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

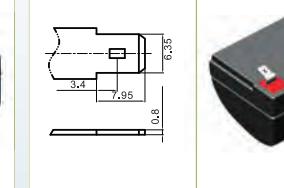


Terminal Specification

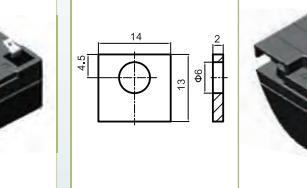
T1 Copper coated with Silver - FASTON



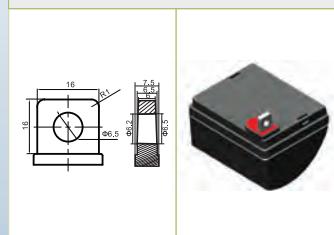
T2 Copper coated with Silver - FASTON



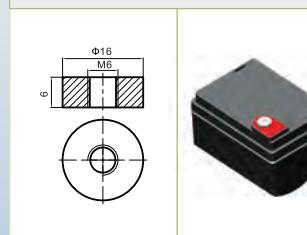
T3 Brass coated with Tin
Torque: 3.9~5.4 N.m



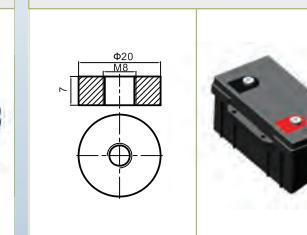
T5 Lead
Torque: 3.9~5.4 N.m



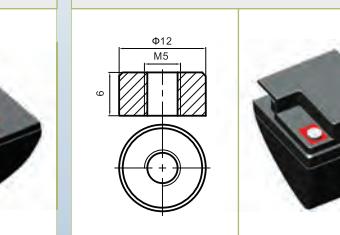
T6 Brass coated with Tin - Threaded Insert 6mm STUD
Torque: 3.9~5.4 N.m



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)	20C Ah	Length (mm)	Width (mm)	Total Height (mm)	Terminal Type
BA6-4.5	0092L57141	AGM Deep Cycle	6V	4.5	70	47	106	T1
BA6-12	0092L57142	AGM Deep Cycle	6V	12	151	51	100	T1
BA12-2.9	0092L57143	AGM Deep Cycle	12V	2.9	79	56	105	T1
BA12-5	0092L57144	AGM Deep Cycle	12V	5	151	53	99	T1
BA12-5.8	0092L57145	AGM Deep Cycle	12V	5.8	90	70	107	T1
BA12-7T1	0092L57146	AGM Deep Cycle	12V	7	151	65	99	T1
BA12-TT2	0092L57147	AGM Deep Cycle	12V	7	151	65	99	T2
BA12-5.8T2	0092L57162	AGM Deep Cycle	12V	5.8	90	70	107	T2
BA12-9	0092L57163	AGM Deep Cycle	12V	9	151	65	99	T2
BA6-7	0092L57164	AGM Deep Cycle	6V	7	151	34	100	T1
BA12-12	0092L57165	AGM Deep Cycle	12V	12	151	98	101	T2
BA12-14	0092L57166	AGM Deep Cycle	12V	14	151	98	101	T2
BAC12-20	0092L57151	AGM Deep Cycle Plus	12V	21.4	181.5	77	166.5	T12
BAC12-26	0092L57152	AGM Deep Cycle Plus	12V	27.8	166	175	125	T3
BAC12-33	0092L57153	AGM Deep Cycle Plus	12V	35.4	195	130	182	T5
BAC12-55	0092L57154	AGM Deep Cycle Plus	12V	59	228	137	216	T6
BAC12-75	0092L57155	AGM Deep Cycle Plus	12V	80.4	259	168	214	T6
BAC12-100R	0092L57156	AGM Deep Cycle Plus	12V	100	305	168	213	T6
BAC12-150	0092L57157	AGM Deep Cycle Plus	12V	160.8	483	170	238.5	T11
BAC12-200	0092L57158	AGM Deep Cycle Plus	12V	214.4	522	240	224	T11
BAC12-38FR	0092L57159	AGM Deep Cycle Plus	12V	40.7	197	165	170	T6
BAC12-75FR	0092L57160	AGM Deep Cycle Plus	12V	80.4	259	168	214	T6
BAC12-120RFR	0092L57161	AGM Deep Cycle Plus	12V	120	330	173	220	T11
BG12-100	0092L57140	Gel Deep Cycle	12V	96	330	173	220	T11
BG12-38	0092L67000	Gel Deep Cycle	12V	38	197	165	170	T6
BG12-70	0092L67001	Gel Deep Cycle	12V	70	259	168	214	T6
BG12-100	0092L67002	Gel Deep Cycle	12V	96	330	173	218	T11
BG12-135	0092L67003	Gel Deep Cycle	12V	135	485	170	240	T11
BG12-200	0092L67004	Gel Deep Cycle	12V	200	522	240	224	T11
BG12-240	0092L67005	Gel Deep Cycle	12V	240	522	268	226	T11

What drives you, drives us.

Technology from Bosch is used in practically every vehicle in the world. For us, the focus is on people and helping them to stay mobile.

We have been dedicated to people for more than 125 years with our pioneering spirit, research, production and expertise.

Our dedication is an unwavering commitment to providing them with a unique combination of parts, diagnostics, workshop equipment and services:

- ▶ state-of-the-art solutions for efficient vehicle repairs
- ▶ innovative workshop equipment and software – also available on favorable lease terms
- ▶ the world's largest range of new and remanufactured spare parts
- ▶ fast, reliable delivery service
- ▶ expert customer care via our hotline
- ▶ extensive range of training courses
- ▶ specific sales and marketing support
- ▶ plus many other services



Bosch products and services

- ▶ Diagnostics
- ▶ Diesel systems
- ▶ Gasoline systems
- ▶ Brake systems
- ▶ Spark plugs
- ▶ Energy systems
- ▶ Batteries
- ▶ Filters
- ▶ Wiper systems
- ▶ Light technology
- ▶ Comfort electronics
- ▶ Hybrid/e-mobility
- ▶ Technical hotline
- ▶ Knowledge database
- ▶ Service training
- ▶ Workshop concepts



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