

BATTERY CHARGER STARTING DEVICES



Overview of battery chargers

	Model	BC 30 E S	EBC 22 E	EBC 75 E EBC 150 E	JSPB 12	SB 201 MS	SB 202 MS	SB 501	MBC 450 S MBC 750 S
	Art. no.:	6851050	6851100	6851105 6851110	6851150	6850655	6850660	6851160	6850515 6850510
Charger	manual	●							
	automatic								
	electronic		●	●					●
Jump start-er	AGM battery							●	
	Lithium battery				●	●	●		
Voltage	6V			●	●				
	12V	●	●	●	●	●	●	●	●
	24V	●					●	●	●
Battery type	WET [®]	●		●	●	●	●	●	●
	LiFePO4		●	●			●		● (450 S only)
	AGM [®]	●	●	●	●	●	●	●	●
	GEL [®]	●	●	●	●	●	●	●	●
function	Charge	●	●	●					●
	Conservation		●	●					●
	Jump start	●			●	●	●	●	●
	Secured jump start					●	●	●	●
	Recovery		●						●
	Supply						●	●	●
Symbol	Abbreviation: Designation	BC 30 E S	EBC 22 E	EBC 70 E EBC 160 E	JSPB 12	SB 201 MS	SB 202 MS	SB 501	MBC 750 S
	function	L	L	L	S	S	S	S	L S
	Motorcycle: Motorcycle	●	●	●	●	●	●	●	● ●
	Car: Passenger car	●	●	●	●	●	●	●	● ●
	kB: Minibuses	●	●	●	●	●	●	●	● ●
	kT: Small vans <3.5 t	●			●	●	●	●	● ●
	Boats: Motorboats with 2 batteries	●				●	●	●	● ●
	Lorries <7.5t: Light lorry < 7.5 t	●					●	●	● ●
	Lw: Agricultural vehicles, tractors	●						●	● ●
	Construction: Construction vehicles							●	● ●
	Lorry>7.5t/vehicle: Trucks, articulated lorries, commercial vehicles, buses, tractors, etc.					●	●	●	● ●

Power generator

Battery charger

Induction / heating appli-
ances

Lift tables & lift trucks

Transport aids

Car jacks

Hoisting equipment/scales

Workshop appliances

Battery charger

LKAR 8 cable reel – For a tidy charging cable when charging the electric car

- ▶ Swivelling steel bracket for wall or ceiling mounting
- ▶ Automatic return brake slows down the cable retraction - no risk of injury from retracting cable
- ▶ Housing made of impact-resistant plastic
- ▶ Locking and automatic retraction of the hose by simply pulling
- ▶ Protected against foreign bodies and splash water thanks to protection class IP 44
- ▶ Only suitable for wallboxes with charging socket



Model		LKAR 8
Art. no.		6882000
Technical data		
Cable length car connection	m	8
Connection cable length	m	2
Plug		Type 2
Power, cable reeled in	KW	7
Power, cable rolled out	kW	11
Connection voltage	V	400
Charging current	A	16
Dimensions (L x W x H)	mm	360 x 322 x 199
Weight approx.	kg	7

Jumper cable

- ▶ Fully insulated pole terminals
- ▶ Plastic sheathing
- ▶ Without surge protection



Scope of delivery:

- › Jumper cable red
- › Black jumper cable
- › Plastic round bag with zip fastener



Model	Jumper cable 16 mm ² Length 3 m	Jumper cable 25 mm ² Length 3.5 m	Jumper cable 35 mm ² Length 4.5 m
Art. no.	6860000	6860001	6860002
Technical data			
Cable length	2 x 3 m	2 x 3.5 m	2 x 4.5 m
Cable cross-section	16 mm ²	25 mm ²	35 mm ²
Max. current load	220 A	350 A	480 A
Live material	Copper-coated aluminium		
Standard	DIN 72553-16	DIN 72553-25	DIN 72553-35
Suitable for batteries	12V	12/24 V	12/24 V
Suitable for motors	Petrol	Petrol/diesel	Petrol/diesel
Weight approx. (pair)	1.8 kg	2.2 kg	2.5 kg

BT P 1 Battery tester with printer - Accurate and reliable with large LCD screen

- ▶ High/low voltage detection for improved starter/charging system testing
- ▶ Proven conductance technology
- ▶ Voltmeter mode for testing the starter motor and charging system
- ▶ Checking the discharged battery
- ▶ Undervoltage/surge/polarity reversal protection
- ▶ Indicates the cold start capability CCA of the battery at the end of each test
- ▶ Test result can be saved
- ▶ Printer included



Model		BT P 1
Art. no.		6851155

Technical data		
Cold start current CCA	A	100 – 1400
SAE/EN rating system	A	100 – 1400
IEC/DIN rating system	A	100 – 800
Operating temperature	°C	-18 – 55
Voltage range	V DC	1.5 – 17
Housing material		Acid and impact-resistant ABS
Dimensions (L x W x H) approx.	mm	270x100x60
Weight approx.	kg	0.58

Battery charger

Battery charger/starter BC 30 E S –

for charging maintenance-free starter batteries in the automotive sector

- ▶ Various battery types selectable
- ▶ Automatic detection of the battery voltage
- ▶ Selectable charging speed
- ▶ Fast charging possible
- ▶ For long-term charging of maintenance-free batteries that are not constantly in use (e.g. electric cars, motorhomes, lawnmowers, etc.)
- ▶ Optimum charging of the battery even at temperatures below 0°C with special winter mode, device charges with higher charging current and increased charging voltage
- ▶ Optimum control of all phases via illuminated display
- ▶ Simple operation



1. Display selection
2. Selecting the battery type
3. Status display Preparing/ Loading
4. Polarity status
5. BOOST function for starting
6. Technical information
7. Selection of the loading speed



Scope of delivery:

- > Charging cable 1.5 m with fully insulated terminals

Model	BC 30 E S	
Art. no.	6851050	
Technical data		
Charging voltage	12 V	24 V
Charging current (fast/normal)	4 / 8 / 15 / 100 A	
Starting voltage	3 V	
Protection	1 / 5 A	
Power/voltage	270 W/ 230 V ~50Hz	
Charging cycles	6	
Suitable for battery types	AGM, GEL, WET	
Dimensions (L x W x H) approx.	328 x 330 x 210 mm	
Weight approx.	7.87 kg	

Standard equipment:

- ▶ Normal and fast charging
- ▶ Automatic detection of the battery voltage
- ▶ Winter mode
- ▶ Digital display charging voltage and current
- ▶ Display of the battery status
- ▶ Battery voltage display
- ▶ Fuse to prevent short-circuiting of the charging cables
- ▶ Protection against short circuit with incorrect polarity
- ▶ Thermal circuit breaker with auto reset
- ▶ Protection against voltage peaks
- ▶ 1.5 m charging cable ± with professional crocodile clips
- ▶ 230 V connection cable with Schuko plug



EBC E – Electronic battery chargers/preservers for AGM/GEL/STD/lithium batteries

- ▶ Seven-stage charging, extends the service life of the battery
- ▶ Built-in processor provides an intelligent, automatic charging programme that delivers optimum charging performance at high frequency
- ▶ Suitable for e.g. vehicles, motorcycles, boats and lawnmowers
- ▶ Protection against short circuit, reverse polarity, overload and overheating
- ▶ To regenerate batteries that have been deeply discharged over a short period of time
- ▶ Constant current flow during the main charging phase ensures faster and higher charging efficiency

EBC 22 E

- ▶ Status display via LED



Model	EBC 22 E	EBC 75 E	EBC 150 E
Art. no.	6851100	6851105	6851110

Technical data		EBC 22 E	EBC 75 E	EBC 150 E
Charging voltage	V	12	6 / 12	6 / 12
Charging current	A	1.5	2 / 5	5 / 10
Capacity maintenance	Ah	4 – 120	7 – 150	12 – 280
Power/voltage ~50 Hz	W/V	26 / 230	75 / 230	150 / 230
Suitable for battery types		WET, Gel, AGM, Lithium, LiFePO4		
Charging cable length	m	0.5	1.5	1.5
Dimensions (L x W x H) approx.	mm	100 x 65 x 70	240 x 70 x 55	290 x 80 x 61
Weight approx.	kg	0.35	0.5	0.8

Standard equipment EBC 75 E / EBC 150 E:

- Display of the battery status
- Charging voltage display
- Battery voltage display
- Display of charging and starting current
- LED: Signal with incorrect polarity/voltage or fault
- LED signal for charging and end of charge
- Protection against short circuit with incorrect polarity
- Thermal circuit breaker with auto reset
- Protection against overload
- Protection against voltage peaks
- Protection of vehicle electronics
- Charging cable +/- with professional crocodile clips
- 230 volt connection cable with Schuko plug
- Acoustic signal for voltage peaks

JSPB 12 car jump-start battery

Compact, with a peak current of up to 900 amps and power bank function

- ▶ Can start petrol engines with up to 6 litres and diesel engines with up to 3 litres of displacement.
- ▶ Can also be used as a power bank thanks to two USB-A outputs
- ▶ Integrated LED torch
- ▶ Integrated charge status indicator, automatic switch-off when not in use, deep discharge and overcharge protection, overcurrent protection, reverse polarity protection and overheating protection
- ▶ Equipped with the latest battery technology



Scope of delivery:

- ▶ 230V charging cable
- ▶ Insulated terminals
- ▶ USB cable



Model	JSPB 12
Art. no.	6851150

Technical data		
Charging voltage	V	12
Charging capacity	mAh	12000
Starting current	A	300
Peak starting current	A	900
Dimensions (L x W x H) approx.	mm	210 x 85 x 40
Weight approx.	kg	0.88

Standard equipment:

- ▶ Protection against short circuit with incorrect polarity
- ▶ Protection against overload
- ▶ Protection against voltage peaks
- ▶ Battery status display via LEDs

Battery charger

SB MS - Battery starters

Ultra-light device with integrated lithium battery

12 V

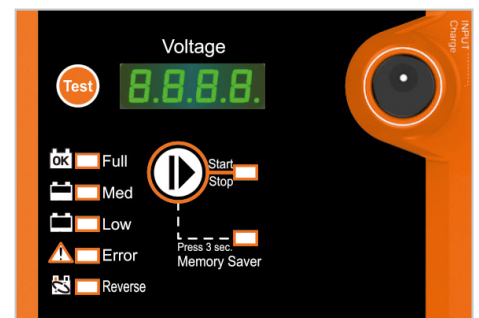
- ▶ For professional users in repair, bodywork and car electrics workshops
- ▶ Patented microprocessor control
- ▶ Display with error code display
- ▶ Easy handling thanks to extensive protection functions, e.g. against incorrect polarity or surge
- ▶ No defect in the internal battery with prolonged discharge
- ▶ Four-cell LiFePO4 battery with high safety against spontaneous ignition
- ▶ Five times longer service life than devices with conventional rechargeable batteries - approx. 3000 cycles
- ▶ 0.5 m long starter cable with fully insulated crocodile clips
- ▶ Memory Saver function: In support charging mode, use as a power supply unit to maintain the settings of the vehicle electronics when the battery is removed - important function for modern cars in which the battery may only be changed in support charging mode in order to maintain the settings of the electronic devices in the vehicle (radio code, seat and driver comfort settings, etc.)

> 100% safe with LiFePO4 lithium-ion battery with four cells

> Protection against voltage peaks

> Protection of vehicle electronics

> Backup charging mode (Memory Saver)



- > Simple operation
- > Display with error code display



Technical data	SB 201 MS	SB 202 MS
Art. no.	6850655	6850660

Electrical data	SB 201 MS	SB 202 MS
Starting voltage	12 V	12/ 24V
Battery capacity	7500 mAh	10000 mAh
Operating temperature	-20 to +40 °C	-20 to +40 °C
Charging cycles	approx. 3,000	approx. 3,000
Peak starting current	2000 A	5000 / 2500 A
I-Start	800 A	2000 / 1000 A
Protection class	IP 32	IP 32
Connection voltage	230 V ~50Hz	230 / ~50
Charging cable length	0.5 m	1.6 m
Suitable for battery types	WET, GEL, AGM	Wet, Gel, AGM, LIT
Dimensions (L x W x H) approx.	260 x 135 x 72 mm	350 x 240 x 140 mm
Weight approx.	2.4 kg	5.0 kg

Standard equipment:

- ▶ Backup charging mode (Memory Saver)
- ▶ Battery voltage display
- ▶ Fuse to prevent short-circuiting of the charging cables
- ▶ Protection against short circuit with incorrect polarity
- ▶ Protection against overload
- ▶ Protection against voltage peaks
- ▶ Protection of vehicle electronics
- ▶ Charging cable ± with professional crocodile clips
- ▶ 230 volt connection cable with Schuko plug



SB 501 - Battery starters for Wet, Gel and AGM batteries

- ▶ Universally applicable device for daily use by professional users in repair, bodywork and car workshops
- ▶ For all vehicle types with 12 or 24 volt batteries
- ▶ With 230 volt connection cable with earthed plug and for cigarette lighter
- ▶ For petrol vehicles up to 10 l cubic capacity and diesel vehicles up to 6.5 l cubic capacity
- ▶ Simple and ergonomic handling
- ▶ Protects the vehicle electronics from damage during the starting process
- ▶ Protection against voltage peaks and incorrect polarity
- ▶ Battery charger for charging the internal battery integrated
- ▶ Direct charging of the starter inside the vehicle via connection cable to cigarette lighter



Scope of delivery:

- > 230V charging cable
- > Car charging cable



Model		SB 501
Art. no.		6851160

Technical data		
Starting voltage	V	12 / 24
Starting current	A	1000 / 600
Peak starting current	A	3000 / 2000
Protection class		IP 20
Suitable for battery types		Wet, Gel, AGM
Electrical connection	V/Hz	230 / ~50
Dimensions (L x W x H) approx.	mm	380 x 190 x 420
Weight approx.	kg	18



Standard equipment:

- ▶ Digital ammeter
- ▶ Protection against overload
- ▶ Protection against voltage peaks and incorrect polarity
- ▶ Protection of vehicle electronics
- ▶ Charging cable +/- with professional crocodile clips

Battery charger

MBC 550S / MBC 750 S – Professional battery chargers/starters for wet, gel and AGM batteries with a charging voltage of 12 and 24 volts



- ▶ Outstanding operational reliability in fast and trickle charging mode
- ▶ Microprocessor-controlled device
- ▶ Automatic charging cycles with up to ten charging and analysis phases
- ▶ Three programmed and one manual charging cycle
- ▶ 100% protection of the vehicle electronics against voltage peaks when starting
- ▶ Operation of the quick start also possible via remote start. With a cable length of 1800 mm, for example from inside the vehicle
- ▶ Stepless selection of the charging current
- ▶ In support charging mode, use as a power supply unit to retain the settings of the vehicle electronics when the battery is removed (memory saver) - important function for modern cars in which the battery may only be changed in support charging mode in order to retain the settings of the electronic devices in the vehicle (radio code, seat and driver comfort settings, etc.)



- › Models with chassis
- › Backup charging mode (Memory Saver)
- › Regeneration and maintenance function
- › Quick start also via remote start operation

Model		MBC 450 S		MBC 750 S	
Art. no.		6850515		6850510	
Technical data					
Charging voltage	V	12	24	12	24
Charging current	A	60	30	100	70
Charging capacity	Ah	10 – 700		4 – 700	
Starting power	A	250 / 125		450	
Top performance	A	540		650	
Voltage ~50Hz	V	230		230	
Suitable for battery types		AGM, GEL, STD, LFP		Wet, Gel, AGM	
Dimensions (L x W x H) approx.	mm	330 x 270 x 780		380 x 310 x 950	
Weight approx.	kg	19		29.5	

Standard equipment:

- Digital display for charging voltage and current
- Digital ammeter
- Display of the battery status
- Display of charging and starting voltage
- LED signal in the event of incorrect polarity, incorrect voltage or fault
- LED signal for charging and end of charge
- Protection against short-circuiting of the charging cables
- Protection against short circuit due to incorrect polarity
- Protection against overload
- Thermal circuit breaker with auto reset
- Charging cable +/- with standard crocodile clips