

# BATTERY CHARGERS

- ◆ SWITCHING SERIES CB500-3
- ◆ SWITCHING SERIES CB522-LT
- ◆ SWITCHING SERIES NE287

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G L O B A L

**AL-KO** VEHICLE TECHNOLOGY ELECTRONICS

CB522-3



CB510-3  
CB516-3  
CB520-3



BATTERY CHARGERS

SWITCHING BATTERY CHARGERS CB500-3

CB510-3, CB516-3, CB520-3 and CB522-3 battery chargers can charge automatically lead-acid, lead-gel and AGM batteries with innovative charging lines. They are protected against overheating and the 12V outputs are protected against short circuits and polarity inversion.

MODEL	CB510-3	CB516-3	CB520-3	CB522-3
TECHNICAL DATA				
NOMINAL INPUT VOLTAGE	230Vac± 10%	230Vac± 10%	230Vac± 10%	230Vac± 10%
FREQUENCY	50Hz÷60Hz	50Hz÷60Hz	50Hz÷60Hz	50Hz÷60Hz
MAX POWER	150W	250W	300W	320W
PROTECTION FUSE	3,15A (glass 5 x 20)	3,15A (glass 5 x 20)	3, 15A (glass 5 x 20)	T 3,15A (glass 5x20)
ON/OFF SAFETY SWITCH	230V	230V	230V	230V
OUTPUT TECHNICAL DATA				
BULK VOLTAGE (V)	14,1Vdc (A) - 14,4Vdc (B) - 14,7Vdc (C)	14,1Vdc (A) - 14,4Vdc (B) - 14,7Vdc (C)	14,1Vdc (A) - 14,4Vdc (B) - 14,7Vdc (C)	14,1Vdc (A) - 14,4Vdc (B) - 14,7Vdc (C)
FLOAT VOLTAGE (V)	13,5Vdc (A) - 13,8Vdc (B) - 13,8Vdc (C)	13,5Vdc (A) - 13,8Vdc (B) - 13,8Vdc (C)	13,5Vdc (A) - 13,8Vdc (B) - 13,8Vdc (C)	13,5Vdc (A) - 13,8Vdc (B) - 13,8Vdc (C)
MAX CURRENT	10A continuous	16A continuous	20A continuous	22A continuous
CHARGING LINE	IUoU	IUoU	IUoU	IUoU
BATTERY TYPE SELECTOR	3 positions (A - B - C)	3 positions (A - B - C)	3 positions (A - B - C)	3 positions (A - B - C)
SHORT-CIRCUIT AND POLARITY INVERSION PROTECTION	15A (blade)	25A (blade)	30A (blade)	30A (blade)
THERMAL PROTECTION	YES	YES	YES	YES
SIGNAL AC POWER SUPPLY (S)	12V; 50 mA	12V; 50 mA	12V; 50 mA	12V; 50 mA
GENERAL TECHNICAL DATA				
EFFICIENCY	86%	86%	86%	86 %
ROOM TEMPERATURE	0 ÷ 50°	0 ÷ 50°	0 ÷ 50°	0 ÷ 40°
VENTILATION	NO	Gradual automatic regulation	Gradual automatic regulation	Gradual automatic regulation
PROTECTION DEGREE	IP 30	IP 30	IP 30	IP 30
MAINS CONNECTION	Schuko plug	Schuko plug	Schuko plug	Schuko plug
BATTERY CONNECTION	6,3 terminals	6,3 terminals	“M6” screw	“M6” screw
CASE	Nylon + fiber glass self-extinguishing	Nylon + fiber glass self-extinguishing	Nylon + fiber glass self-extinguishing	Nylon + fiber glass self-extinguishing
DIMENSIONS (MM)	180 x 140 x 85H	180 x 140 x 85H	180 x 140 x 85 H	180 x 190 x 85H
WEIGHT	1 Kg	1 Kg	1 Kg	1,2kg
COLOUR	Graphite black	Graphite black	Graphite black	Graphite black

CB522-LT



BATTERY CHARGERS

SWITCHING BATTERY CHARGERS CB522-LT

The new CB522-LT switch-mode battery charger has been designed for the charge of 12V lithium batteries only. It is protected against overtemperature and the 12V outputs are protected against short circuit and polarity inversion.

MODEL	CB522-LT
TECHNICAL DATA	
NOMINAL INPUT VOLTAGE	230Vac± 10%
FREQUENCY	50÷60 Hz
MAX POWER	320W
PROTECTION FUSE	3,15A (glass 5 x 20)
ON/OFF SAFETY SWITCH	230V
OUTPUT TECHNICAL DATA	
BULK VOLTAGE (V)	14,5V
FLOAT VOLTAGE (V)	13,5V
MAX CURRENT	22A continuous
CHARGING LINE	IUoU
BATTERY TYPE SELECTOR	No
SHORT-CIRCUIT AND POLARITY INVERSION PROTECTION	30A (blade)
THERMAL PROTECTION	YES
SIGNAL AC POWER SUPPLY (S)	12V; 50 mA
GENERAL TECHNICAL DATA	
EFFICIENCY	86 %
ROOM TEMPERATURE	0 ÷ 40°
VENTILATION	Forzata, regolazione automatica variabile
PROTECTION DEGREE	IP 30
MAINS CONNECTION	Schuko plug
BATTERY CONNECTION	"M6" screw
CASE	Nylon + fiber glass self-extinguishing
DIMENSIONS (MM)	180 x 190 x 85H
WEIGHT	1,2kg
COLOUR	Graphite black



**NE287**


Provided by

## BATTERY CHARGERS

### SWITCHING BATTERY CHARGERS NE287

The NE287 is a battery charger for lead, gel, AGM and lithium batteries. The batteries must have a nominal voltage of 12V and capacity suitable for the battery charger current (check compatibility of the maximum charging current with the technical data sheet for the battery to be connected).

MODEL	NE287-17A	NE287-21A
<b>TECHNICAL DATA</b>		
NOMINAL INPUT VOLTAGE	230Vac± 10%	230Vac± 10%
FREQUENCY	50Hz±60 Hz	50Hz±60Hz
MAX POWER	250W	300W
PROTECTION FUSE	4A	4A
<b>OUTPUT TECHNICAL DATA</b>		
MAX CURRENT	17A continuous	21A continuous
SHORT-CIRCUIT PROTECTION	YES	YES
OVER-LOAD PROTECTION	YES	YES
OVER VOLTAGE PROTECTION	YES	YES
OVER TEMPERATURE PROTECTION	YES	YES
OVER TEMPERATURE BATTERY PROTECTION	YES (optional with NTC sensor)	YES (optional with NTC sensor)
THERMAL PROTECTION	YES	YES
BATTERY TYPE SELECTOR	Dip-switch 4 position	Dip-switch 4 position
CHARGING LINE	IUoU - AGM / IUoU - GEL / IUoU -Pb / IUoU -LiFePO4	IUoU - AGM / IUoU - GEL / IUoU -Pb / IUoU -LiFePO4
SIGNAL AC POWER SUPPLY (S)	12V (MAX 5mA)	12V (MAX 5mA)
<b>GENERAL TECHNICAL DATA</b>		
EFFICIENCY	86 %	86%
ROOM TEMPERATURE	0 ÷ 50°	0 ÷ 50°
VENTILATION	NO	YES
PROTECTION DEGREE	IP 20	IP 20
MAINS CONNECTION	3 poles IEC EN60320 C14	3 poles IEC EN60320 C14
BATTERY CONNECTION	"M5" screw	"M5" screw
DIMENSIONS (mm)	167x170x73mm	167x170x73mm
WEIGHT	1,5kg	1,5 Kg
COLOUR	Black	Black