

MAC PLUS Series

48V & 36V DC-DC Chargers | New Bi-directional Technology

Boost Your Service Battery

Too often, service batteries don't get the charge they need. This is a problem made worse by smart alternators and start/stop systems, which result in slow and insufficient charges. The Mac Plus 48V solves that problem. With brand new bi-directional technology, the Mac Plus can use each side as an input or output, delivering a reliable and consistent charge to both service and starter batteries.



Key Features

- Bi-directional technology allows you to charge both your batteries
- 36V & 48V in/output (high side)
- 12V or 24V in/output (low side)
- Fast and safe charging, even during short trips
- Fanless design for silent operation
- Suitable for flooded, Gel, AGM and Li-Ion batteries (incl. LiFePO4)
- Even charges fully depleted batteries
- Engine run detection protects starter battery
- Adjustable current limits to meet Euro 5/6 requirements
- Parallel operation to obtain charging capacities well over 100 Amps
- MasterBus®, CZone® and NMEA 2000® compatible, for intelligent system monitoring and automation
- Temperature compensation and voltage sense for an optimal charging result
- E-Mark/R10 certification for mobile applications
- Power supply mode offers stable power for sensitive loads
- Heavy duty connections for easy installation and quick set up via DIP switches.



Low voltage side
(12/24V)



Mac Plus

Charge in both directions

High voltage side
(36/48V)



GENERAL SPECIFICATIONS

Product description	48/12-50	12/48-15	48/24-30	24/48-15
Product code	81203105	81203205	81203305	81203405
Nominal input voltage	36/48 V DC	12 V DC	36/48 V DC	24 V DC
Nominal output voltage	12V DC	36/48 V DC	24 V DC	36/48 V DC
Output power (max.)	750 W	900 W	900 W	900 W
Input voltage range	32-64 V DC	8-16 V DC	32-64 V DC	16-32 V DC
Output voltage range	10-15 V DC	30-60 V DC	20-30 V DC	30-60 V DC
Max. input current	25 A	60 A	25 A	50 A
Max. output current	50 A	15 A	30 A	15 A

