Mac Plus 24/24-50



Product code: 81205505



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 DC-DC charger solves this problem, providing a quick, safe, and consistent charge to your service battery. And, by knowing when the engine is running and providing charge, you can be sure that the Mac Plus will never drain your starter battor.

starter battery. Proven Mastervolt Quality

Get peace of mind, knowing that you've got the best on-board. Using the proven Mastervolt 3-step+ charge algorithm, the Mac Plus delivers a quick and easy charge, even to completely flat batteries.

A robust design holds up in even the harshest conditions, with battery temperature optimized charging and high-quality aluminium housing to ensure superior protection against dust and water ingress. The power efficient design also allows the Mac Plus to operate silently and without a fan. Total Power

Flexibility

With a wide DC input range, the Mac Plus allows all DC sources and can charge two batteries from a single alternator or charger. It supports a full range of chemistries and battery types, including lithium. And it also functions seamlessly with modern alternators such as Euro 5 and 6, ensuring proper charging by providing constant power, even when the alternator is inactive.

Parallel configuration of up to ten units will provide over 100 amperes. And advanced high-frequency technology with modern microprocessors ensures minimal power loss when switching from 12V to 24V and vice versa.

Analog voltage sense ports are also available to compensate for voltage drop and maintain proper charging.

Superior Monitoring & Control

Compatibility with CZone®, NMEA 2000® and MasterBus delivers truly superior monitoring and control, and ensures Mac Plus integrates easily into complete systems. Achieve the best performance possible via various controllers and high quality MOSFETs. And configure the Mac Plus with ease via MasterAdjust, the CZone configuration tool, or even via the on-board DIP switches.

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- \cdot $\;$ 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
- · Voltage stabilization protects sensitive equipment, lights and loads
- 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



Specifications

Specifications battery charger

Battery voltage sense

General specifications

Status indicator Communication protocol Output voltage Nominal output voltage Output voltage stabilisation Output voltage ripple (peak peak) Max. output power Max. output current Nominal input voltage Input voltage range Max. input current Galvanic isolation Efficiency Parallel configuration Alarm contact Engine run signal input DIP switches Dimensions, hxwxd

Weight

Compliance

Technical specifications

Battery types Power consumption Temperature range (ambient temp.)

Cooling Protection degree Protections Yes

Yes, 3 color double LED MasterBus, CZone & NMEA 2000 20-30 V DC 24 V 2 % at extremes of temps, load and input Max. 1 % 1425 W 50 A 24 V DC 16-32 V 50 A No > 95 % (at nom. input voltage, full load); 97 % peak % Yes, up to 4 Yes, through MasterBus, CZone, DIP Switch or remote switch Yes (active high/active low) Yes, for basic set up 255x165x66 mm 10.0 x 6.5 x 2.6 inch 2 kg 4.4 lb CE, E-Mark, SAE J1171, ISO 8846 ignition protected, ABYC & UKCA

Gel, AGM, Lithium Ion, user defined < 5 mA, < 10 mA in CZone, < 1 mA in MasterBus W - 25 °C to 60 °C; derating > 40 °C/104 °F °C 32 to 32 °F Natural cooling IP23 Overload, over-temperature, DC short circuit, reversed polarity (fuse)

