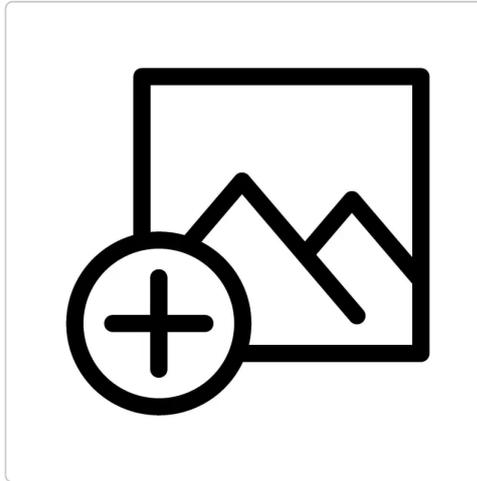


ZIVAN - NG3 - 48V 45A CAN Charger



Reference : ZIV-NG3-48V-45A

Brand : ZIVAN

Options :

No variants

3D Model : Available

EAN-13 : 3762552427014

The **ZIVAN NG3 48V 45A charger** is a single-phase charging solution with an **insulated CAN BUS interface**, designed for professional applications that require reliable, configurable charging and easy integration on board a vehicle or in a fixed installation. Thanks to its **constant-current / constant-voltage** charging logic, compact format and configuration flexibility, this 48 V / 45 A unit meets the needs of lead-based systems as well as certain lithium architectures, depending on the firmware version installed.

This NG3 version is positioned as a 48 V charger designed for integration. It combines charging power, supervision functions and flexible settings so it can suit light electric vehicles, platforms, embedded machines and traction systems that need a charging device consistent with the onboard electrical architecture.

The NG3 45 A is not just a mains-powered charger. It is a programmable unit capable of fitting into a complete architecture with local display, CAN communication, master/slave management depending on the selected version, auxiliary contacts and settings adapted to the battery in use. Depending on the embedded software and selected type, it can suit AGM, gel or flooded lead batteries, as well as certain lithium configurations. This flexibility makes it a relevant platform when the same hardware must cover several use cases without changing charger family.

CAN BUS Interface

One of the key strengths of this single-phase CAN communication charger is its operational readability. Its digital display shows battery voltage, delivered current, remaining time and charged amp-hours in sequence. For integrators, this makes diagnostics, commissioning and maintenance follow-up easier. Output cable voltage-drop compensation is also a practical advantage whenever cable length must be considered to preserve charging accuracy at battery level.

In the field, this 48 V charging solution is especially relevant for projects requiring stable, configurable operation that fits into a system logic. The insulated CAN BUS interface allows the charger to be integrated into a controlled electrical

architecture, while master/slave operation, depending on version, opens the way to multi-charger setups or more complex system layouts. For integrators, engineering teams, maintenance specialists and machine builders, this is what differentiates a standard charger from a 48 V battery charger that can truly be used in a controlled electric chain.

48V 45A Data

Main data for the ZIVAN NG3 48V 45A charger

Designation	ZIVAN NG3 48V 45A Lead/Lithium charger
Type	single-phase CAN BUS battery charger
Nominal battery voltage	48 V
Charging current	45 A
Charging principle	constant current / constant voltage
Communication	insulated CAN BUS
Battery compatibility	AGM, gel, flooded lead; lithium depending on firmware and selected type
Mounting modes	wall-mounted or onboard
Local display	voltage, current, remaining time, charged Ah
Output cable drop compensation	from 0.0 to 1.5 V in 0.1 V steps
Input supply	230 VAC ±10% according to manual, with 115/230 VAC mention depending on product version
Frequency	50–60 Hz
Maximum absorbed power	3 kW
Efficiency	greater than 85%
Cooling	forced
Auxiliary contacts	yes
Protection rating	IP20
Operating temperature	from -20 to +50 °C
Dimensions	430 x 220 x 110 mm
Weight	5.5 kg
Main standards	EN60335-1, EN60335-2-29, EN55014-1, EN61000-3-3, EN55014-2, EN61000-4-2, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11

Mounting & Uses

This model is suitable for projects requiring a 48 V / 45 A charger for light traction, electric vehicles, industrial platforms, embedded systems or special machines. Wall-mounted or onboard installation, forced ventilation and compact footprint make it easier to install in protected technical compartments. It remains essential, however, to validate consistency between battery chemistry, charging curve and selected firmware, especially when lithium compatibility is required.

Firmware Choice

Choosing the right variant is important because it defines both charging logic and the way the charger is integrated into the system.

Lead master CB/Cu1

This version is intended for lead batteries. It works as the main charger, with charging logic adapted to lead technologies and a master control role.

Lithium master CB/Cu3

This version is intended for lithium batteries compatible with the corresponding curve. It remains in a master configuration, with charging behavior set for this battery type.

Lithium slave CAN RE

This version is designed for integration into a CAN architecture with master/slave logic. It is used when another device or another charger controls the whole system and the unit must operate as the slave element.

In practice, this means the choice is not limited to a 48 V / 45 A charger alone, but also includes a **system logic** adapted to battery chemistry and project electrical architecture. Before ordering or commissioning, the **battery chemistry / firmware / master-or-slave role** combination must therefore be validated.

Settings in Service

The NG3 setting logic strengthens this versatility. Depending on configuration, several charging curves are available, with capacity adjustment, charging time setting and, on some versions, seasonal thermal compensation. This approach allows the charger behavior to be adapted to the actual application instead of locking the installation into a single operating scenario. For professional use, this is a real lever for robustness, reliability and system optimization.

Auxiliary contacts and supervision functions further reinforce this value. The charger can signal mains presence and end of charge, making interface with the rest of the installation easier. In addition, the ZIVAN ecosystem includes accessories such as a CAN console, USB-to-CAN adaptor, thermal sensor and master-slave connection kit, useful for projects requiring deeper integration, PC supervision or network communication.

Project Questions

Is this ZIVAN NG3 48V 45A charger suitable for both lead and lithium batteries?

Yes, depending on the firmware and selected charger type. Actual compatibility must always be validated against battery chemistry, charging curve and system architecture.

What is the CAN BUS interface used for on this charger?

It allows the charger to be integrated into a communicating architecture, simplifies supervision and, depending on version, supports master/slave logic or exchanges with other devices.

What is the difference between a master version and a slave version?

A master version controls the main charging logic of the assembly. A slave version is integrated into a multi-charger setup or CAN architecture where control is handled by another system element.

Is this charger intended for onboard installation?

Yes, it can be mounted onboard or on a wall, provided installation, ventilation, cabling and electrical protection rules for this type of equipment are respected.

Which mains supplies are accepted?

The manual states **230 VAC ±10%**, while some product versions mention **115/230 VAC**. The actual accepted supply voltage must therefore be confirmed for the exact reference and delivered version.

Why must the firmware be validated before ordering?

Because charging behavior, battery compatibility and some integration functions depend on the embedded software. On this type of equipment, the correct reference is not defined only by voltage and current, but also by charging logic and charger role within the system.

Integration Charging

The ZIVAN NG3 48V 45A battery charger is intended for professionals looking for a serious, configurable 48 V charging solution that integrates more effectively than a standard charger. Its value is not based solely on output current, but on its ability to adapt to the battery, the system and actual operating constraints. For a lead or lithium project requiring a reliable CAN BUS charging device, the NG3 provides a solid technical base, provided the correct version and settings are selected from the very beginning of the project.

Product sheet written by **Damien L. - EVEA Distribution**, on 10/03/2026

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