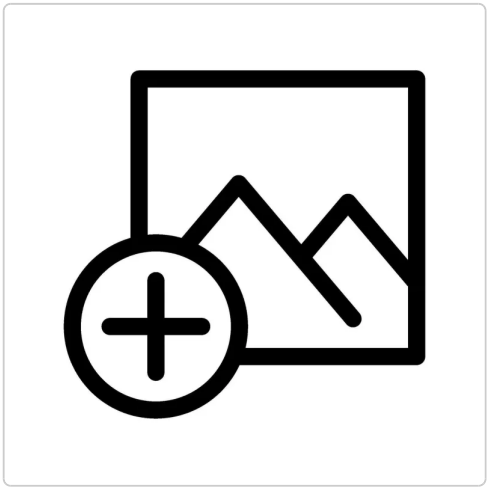
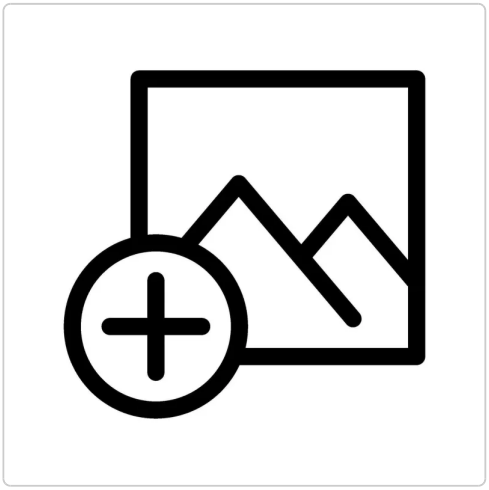
Product datasheet

Version: 07/04/2026

ZIVAN - NG3 - 48V 45A Lead Charger





Reference : ZIV-NG3-48V-45A-LD

Brand : ZIVAN

Options :

No variants

3D Model : Available

EAN-13 : 3762552427151

The ZIVAN NG3 48V 45A is a 48V 45A lead battery charger designed for autonomous charging of traction batteries in stand-alone version, with CU1 or CU2 curves depending on the battery and selected charging strategy. This version is dedicated to flooded, gel and AGM lead-acid batteries for onboard or fixed applications requiring a single-phase 230 VAC charger consistent with a professional 48 V electrical architecture.

This NG3 version is positioned as a professional 48V lead battery charger focused on system integration rather than consumer use. With charging current up to 45 A, maximum power of 3 kW, forced-air cooling, an IP20 enclosure and auxiliary contacts, it addresses integrators looking for reliable charging on lead-acid batteries without depending on a lithium control logic managed by a BMS.

48V lead charging

48V 45A stand-alone lead battery charger

The role of this ZIVAN NG3 48V 45A charger is to convert a single-phase 230 VAC supply into stabilized charging energy for a 48 V lead-acid battery pack, with a current level suited to light traction, service batteries or onboard charging on electric machines. The 50 / 60 Hz operating range, maximum absorbed power around 3 kW and constant-current / constant-voltage charging principle make it a serious basis for architectures requiring more controlled charging than a simple workshop charger. In a new project or replacement context, the value of the NG3 lies both in its charging capacity and in its ability to be integrated cleanly into a full battery, protection, wiring and maintenance architecture.

48V 45A base

Parameter	Value
Brand	ZIVAN
Model	NG3
Designation	48V 45A lead battery charger
Internal reference	ZIV-NG3-48V-45A-LD
Selected MPN	G7ENCB-07020X
Product type	Single-phase battery charger
Compatible chemistries	Flooded lead-acid, gel lead-acid, AGM lead-acid
Control mode	Stand-alone
Charge curves	CU1 / CU2 depending on configuration
Nominal battery voltage	48 V
Maximum charging current	45 A
Maximum power	3 kW
Input voltage	230 VAC
Frequency	50 / 60 Hz
Charging principle	Constant current / constant voltage
Cooling	Forced air
Auxiliary contacts	Yes
Protection rating	IP20
Dimensions	430 x 220 x 110 mm
Base product weight	6.88 kg
Shipping weight	8.60 kg
Installation	Onboard or wall-mounted in a protected area

CU1 / CU2 curves

Lead-acid CU1 or CU2 curve depending on battery

The version covered here must be understood as a stand-alone lead-acid version. This means the product page is limited to flooded, gel and AGM lead-acid battery applications, and the operating logic relies on stand-alone mode with CU1 or CU2 curves. In practice, CU1 corresponds to an IUIa charge profile with equalization and maintenance, while CU2 follows an IU1U2ob logic. This is a key selection point: for a 48V 45A lead battery charger, the correct nominal voltage and current are not enough if the selected curve is not consistent with the battery technology, available charging time and actual operating profile of the machine.

Protected mounting

IP20 onboard charger with 230 VAC input

The NG3 format remains relevant when a 48V 45A charger must stay onboard a vehicle or be installed in a protected technical compartment. Its IP20 enclosure requires installation in a sheltered, ventilated and mechanically stable area,

but this constraint comes with a compact layout for its power class, with dimensions of 430 x 220 x 110 mm and a base weight of 6.88 kg. For integrators, this makes installation easier in light electric utility vehicles, scrubber machines, mobile platforms, material handling equipment or special-purpose machines powered by a 48 V system, provided sufficient clearance is maintained around the charger to preserve forced-air cooling.

Field applications

48V charger for light traction

The value of a stand-alone 48V lead battery charger like this NG3 becomes especially clear in maintenance, retrofit or fleet standardization contexts. When equipment still operates with lead-acid batteries, it is not always relevant to switch immediately to a lithium logic or to a more complex communicating architecture. A dedicated lead-acid version allows charging to remain readable, robust and easy to bring back into service, while still providing useful signals through auxiliary contacts. This relative simplicity is a real advantage for field equipment where availability, ease of diagnosis and repeatability of maintenance matter more than sophisticated data exchange.

Onboard charging on 48 V machines

This onboard 48V charger is well suited to applications still using traction or service lead-acid batteries and requiring a higher charging current than a small compact charger. It can be relevant on light industrial electric vehicles, cleaning machines, rolling platforms, special-purpose equipment, electric carts or 48 V architectures requiring onboard or wall-mounted charging in a controlled technical environment.

Replacement references

The ZIVAN NG3 48V 45A charger can be used as a replacement for several original charger references identified on standard ZIVAN units as well as OEM equipment. The correspondence table below summarizes the replacement cases already identified, distinguishing direct replacements from substitutions involving lower charging current, longer charging time, or peripheral adaptation such as the charge indicator. As with any replacement operation, final validation must remain consistent with the battery in use, connector layout, charging curve, and the actual integration constraints of the machine.

Original reference	Brand	Original charger	Replacement details
F7ENMW-00020X	ZIVAN	ZIVAN NG3 48V 45A charger	Direct replacement by the **G7ENCB-07020X** for a ZIVAN 48V 45A charger from the same family.
F7ENMV-00020Q	ZIVAN	ZIVAN NG3 48V 45A charger	Direct replacement by the **G7ENCB-07020X** for a ZIVAN NG3 48V 45A charger.
F7ENT8-100200	Haulotte	ZIVAN NG3 48V 45A charger	Possible replacement of a Haulotte 48V 45A charger by the **standard G7ENCB**. Also plan for **replacement of the charge indicator**, since the original indicator is not compatible.
2440319260	Haulotte	ZIVAN NG3 48V 45A charger	Direct replacement of a Haulotte 48V 45A charger by the **NG3 48V 45A / G7ENCB-07020X**.
F7EQNY-0088WX	Midac	ZIVAN NG3 48V 50A charger	Possible replacement of a Midac 48V 50A charger by the **ZIVAN NG3 48V 45A**. The **output current is lower**, so a **longer charging time** should be expected.
F7EQDX-0008HX-2	Fenwick	ZIVAN NG3 48V 50A charger	Possible replacement of a Fenwick 48V 50A charger by the **ZIVAN NG3 48V 45A**. The **output current is lower**, so a **longer charging time** should be expected.
F7EQMW-00080X	ASMO	ZIVAN NG3 48V 60A charger	Possible replacement of an ASMO 48V 60A charger by the **ZIVAN NG3 48V 45A**. The **output current is lower**, so a **longer charging time** should be expected.
F7EQMV-00020Q / G7EQCB-07020X-1	ZIVAN	ZIVAN NG3 48V 60A charger	Possible replacement of a ZIVAN 48V 60A charger by the **NG3 48V 45A**. **Charging time will be longer**, but this version can also operate from a **standard 16 A mains outlet**, unlike the 48V 60A version, which exceeds that threshold on the AC input side.
N7EQEG-02H00X	Goupil	ZIVAN PF3 48V 60A charger	Functional replacement of a Goupil 48V PF3 60A charger by the **NG3 48V 45A**. The absence of **integrated PFC** on the replacement charger leads to a **longer charging time**, but the replacement remains usable.

Final integration

Wiring, battery and ventilation

From an integration standpoint, sizing must account for several parameters beyond the nominal product sheet. A 48V 45A lead battery charger requires verification of actual battery pack capacity, usual depth of discharge, available charging window, cable cross-section, connection quality and compartment ventilation. Lead-acid charging is sensitive to curve selection, temperature and voltage drop across wiring. It is therefore preferable to validate charger behavior on the final wiring and with the actual battery in use, rather than drawing conclusions from a simplified workshop test that does not reflect real operating conditions.

For replacement, refurbishment or fleet harmonization, the NG3 48V 45A can also be a relevant option when it is necessary to keep lead-acid technology and secure regular charging without redesigning the whole machine

architecture. In that context, the gain does not come only from the available charging current, but from the ability to stabilize the charging function around a single, identifiable, parameterizable charger compatible with several lead-acid battery families, provided the correct curve is selected.

Project questions

Which batteries does this charger accept?
This version is dedicated to 48 V lead-acid batteries, especially flooded, gel and AGM types.

What is the difference between CU1 and CU2?
CU1 and CU2 are two different charging logics. The right choice depends on the expected end-of-charge behavior and the battery technology actually installed.

Is this charger suitable for a lithium battery?
No. This product page is intentionally limited to the stand-alone lead-acid version. Lithium or CAN-controlled variants belong to a different product scope.

Can it be mounted onboard a vehicle or machine?
Yes, provided a protected and ventilated compartment is designed for an IP20 charger with forced-air cooling.

Lead fleet choice

The ZIVAN NG3 48V 45A is a relevant basis for projects requiring a stand-alone 48V lead battery charger, with a current level suited to traction batteries and a charging logic adjustable through CU1 or CU2 curves. Its real value is measured by the overall integration quality of the battery, charger, wiring and ventilation. Final validation must therefore always be carried out at full system level before commissioning.

Frequently associated searches for this product: stand-alone charger, gel lead-acid batteries, flooded lead-acid batteries. See the corresponding category

Product sheet written by **Hugo C.** and reviewed by the EVEA Distribution technical team — Last updated on 03/04/2026.