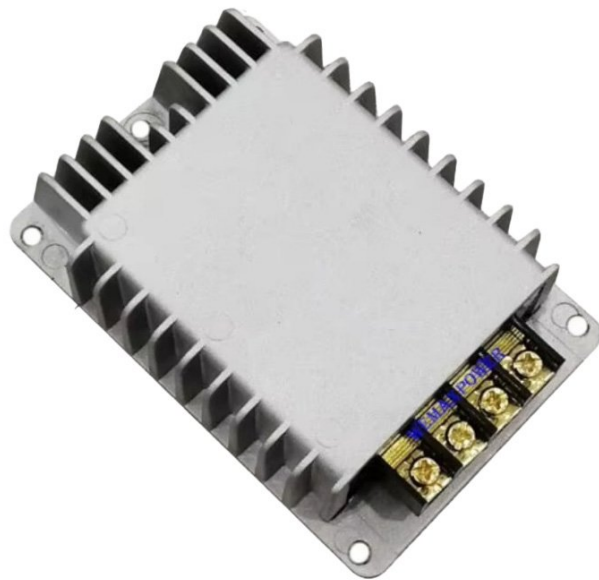


12 V to 14.6 V / 10 A LiFePO4 DC-DC charger

Independent reference for offer #228, using the individually confirmed YUCOO YK-DD12S14.610 full analogue



DOCUMENT STATUS

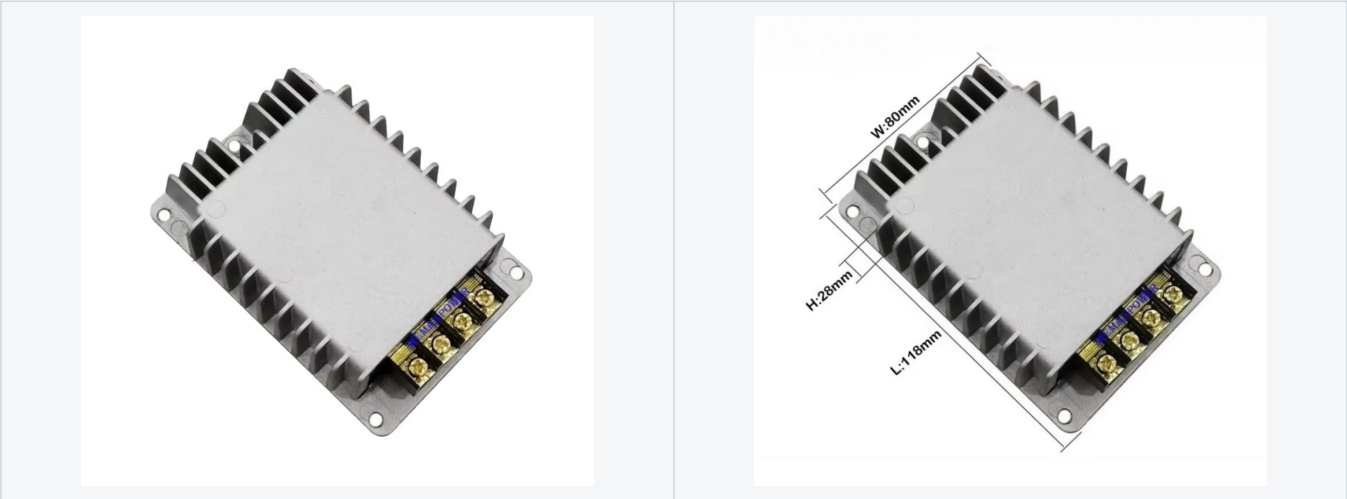
This is not a manufacturer-issued manual for the Vanlife Fabrika product. The product manufacturer is unknown. The reference is based on an individually confirmed full analogue: YUCOO model YK-DD12S14.610. The exact analogue listing matches the 12 V class input, fixed 14.6 V / 10 A output, LiFePO4 charging purpose and 118 x 80 x 28 mm enclosure. Analogue-only values are identified separately and must not be treated as measured data for the physical unit.

Applicability

Linked only to offer #228: DC-DC charger 12 V / 10 A (code dc-dc-12v-10a). It is not linked to the visually and electrically different 20 A, 40 A or 50 A products in offers #227, #229 and #230.

Why the analogue match is accepted

Field	Offer #228 evidence	YUCOO YK-DD12S14.610 evidence
Purpose	DC-DC charger; database product title	DC-DC LiFePO4 battery charger; exact analogue listing
Input class	12 V; database product title	9-16 V DC; analogue listing
Output	14.6 V / 10 A; database parameters	14.6 V / 10 A; model name and analogue listing
Dimensions	118 x 80 x 28 mm; database and dimension photograph	118 x 80 x 28 mm; analogue listing
Enclosure / terminals	Silver finned potted enclosure; four screw terminals; both stored photos	Same compact four-terminal converter family and matching dimensions
Model decoding	No model printed in the stored photos	YUCOO family manual explains YK model coding by input voltage, output voltage and output current



The two stored offer images used for individual identification. The second image states L 118 mm, W 80 mm and H 28 mm.

Analogue-only values and document boundary

The exact YUCOO listing also states approximately 93% efficiency and 600 g mass. These values were not measured on offer #228 and are not installation guarantees. The available YUCOO PDF is a manufacturer-authored family manual hosted by Amarad. It documents the YK-DD12S12** family, model naming, terminal polarity and general installation rules, but its specification table lists 12 V-output examples rather than YK-DD12S14.610. It is therefore supporting family evidence, not an exact original manual for this 14.6 V variant.

Exact analogue listing: [YUCOO YK-DD12S14.610 product listing](#). Family document copy: [YUCOO YK-1212 Series manual hosted by Amarad](#).

Conservative installation and quick start

This fixed-output charger can damage a battery or wiring if polarity, battery chemistry or conductor protection is wrong. Installation should be checked by a qualified person. Verify the terminal markings on the physical unit; do not infer left-to-right order from a photograph.

12 V SOURCE	INPUT + / -	DC-DC CHARGER	OUTPUT + / -	4S LiFePO4 + BMS
Alternator/starter-battery system within the physical unit's confirmed input range; YUCOO analogue states 9-16 V	Fuse the positive feed close to the source; connect negative to the intended return	Four-terminal, fixed 14.6 V / 10 A unit	Confirm polarity at the marked terminals before energising	Must allow a 14.6 V charge setpoint and at least 10 A charge current

Step	Action	Boundary / reason
1	De-energise the input and remove/open the input fuse. Inspect the enclosure, potting, fins and terminal block. Reject a damaged, corroded or loose unit.	Do not wire or tighten live terminals. Keep conductive debris away from the exposed screw terminals.
2	Confirm a 4S LiFePO4 battery and BMS that permit a 14.6 V charge voltage and at least 10 A charge current. Do not substitute another lithium chemistry or series count.	The exact analogue is a fixed 14.6 V / 10 A charger. No user voltage/current control is shown.
3	Identify INPUT +, INPUT -, OUTPUT + and OUTPUT - from the markings on the physical terminal block. Check with the supplier if any mark is unreadable. Never guess the terminal order.	The family manual confirms four input/output polarity terminals, but photos are not an installation label.
4	Connect OUTPUT + to battery positive and OUTPUT - to battery negative using conductors and terminals suitable for the installation. Tighten securely and insulate against accidental contact.	Poor screw-terminal contact can overheat. Follow battery/BMS and vehicle requirements as well as the charger limits.
5	Connect INPUT - to the intended source return. Connect INPUT + through an installer-sized fuse located close to the source. The source and wiring must support the charger's input demand.	The YUCOO family manual requires source power above output demand and positive-input fuse protection. Fuse size and cable gauge are installation-specific and are not invented here.
6	Inspect polarity and clearances again, then energise. Measure output/battery voltage and observe current, terminal temperature, enclosure temperature and BMS status during initial operation.	Stop for heat, smell, smoke, arcing, unstable voltage, terminal discoloration or a battery/BMS alarm.

IMPORTANT

No separate ACC/ignition terminal is visible on offer #228, so automatic engine-run shutdown must not be assumed. The YUCOO family documentation describes a non-isolated converter family; confirm the vehicle grounding/common-negative design before installation. Do not use this charger as a generic load supply, do not parallel converters unless the exact product documentation permits it, and do not expose the open terminal block to water or conductive contamination.

Sources and limitations

Offer evidence: product title, stored database parameters and both saved product photographs for #228. Analogue evidence: the exact YUCOO listing linked on page 2. Family wiring/safety evidence: the six-page YUCOO YK-1212 Series PDF hosted by Amarad. The manufacturer of offer #228 and exact waterproof/IP rating are unknown. This independent reference remains a draft and intentionally omits unsupported ignition logic, protections, cable sizes, fuse rating and environmental rating.