

Adjustable 0-15 V battery charger family

60 A and 85 A variants - AC 100-240 V input - 12 V battery systems



DOCUMENT STATUS

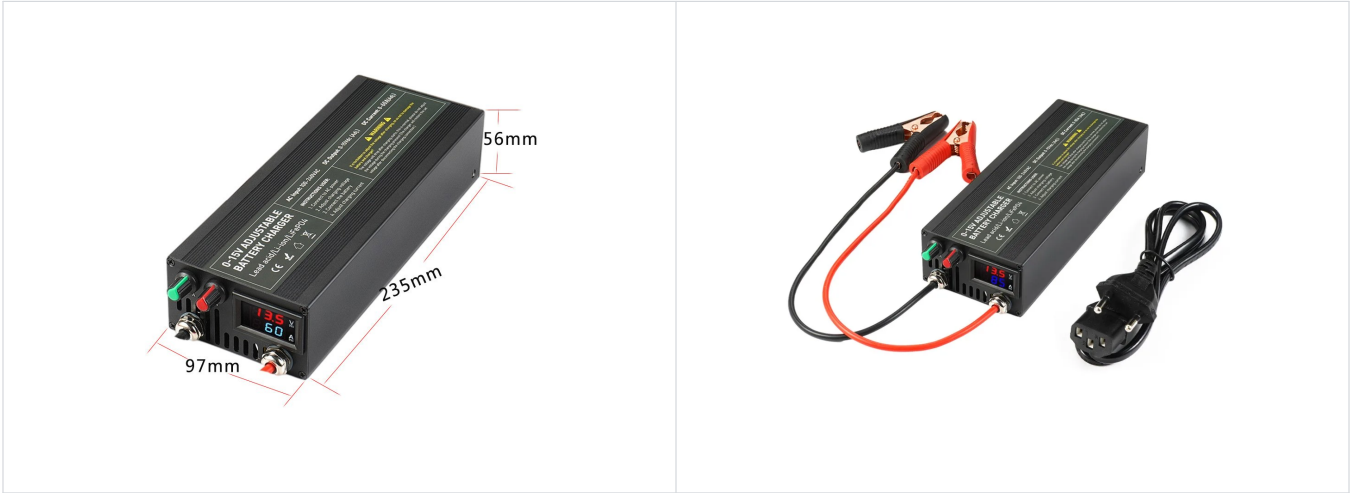
This is not an original manufacturer-issued manual. It is an independent technical reference for a complete Capacity.Li cross-brand analogue of the unbranded/VF 60 A and 85 A products. The source brand and limitations remain visible throughout this draft.

Covered database products

Offer #43: adjustable LiFePO4 charger, 12 V / 60 A. Offer #44: adjustable LiFePO4 charger, 12 V / 85 A. Both use the same 235 x 97 x 56 mm enclosure family with front voltage/current display, two adjustment controls, fixed DC leads and rear fan.

Applicability evidence

Field	Offer #43	Offer #44	Capacity.Li source family
Variant	60 A title and database parameters	85 A title and database parameters	Separate 60 A and 85 A selectable variants
Input	220 V catalog field; label shows 100-240 VAC	220 V catalog field; label shows 100-240 VAC	AC 100-240 V
Output range	0-15 V adjustable family label	0-15 V adjustable family label	0-15 V continuously adjustable
Current range	0-60 A family variant	0-85 A family variant	0-60 A and 0-85 A variants listed separately
Construction	Black finned case, front V/A display, two controls, fan, clamp leads	Same construction	Same case, display, controls, fan and clamp/Anderson options
Battery types	LiFePO4 title; label also names lead-acid and Li-ion	LiFePO4 title; label also names lead-acid and Li-ion	LiFePO4 and lithium; product imagery carries the same family label



Offer-image evidence: the stored family set includes a 60 A dimension image and an 85 A configured unit. Some other stored images show 50 A or another family variant, so current rating is taken from each offer title and parameters, not from a shared promotional image.

Why one reference can cover both

The external Capacity.Li comparison table explicitly covers the 60 A and 85 A versions as variants of one adjustable charger family. Enclosure, controls, display, connection options, electrical range and printed operating sequence match. Each offer was checked separately before linking this shared family reference.

Technical data

Parameter	60 A variant / offer #43	85 A variant / offer #44	Evidence and boundary
AC input	100-240 V AC family label	100-240 V AC family label	Unit label and Capacity.Li family page
DC voltage	0-15 V adjustable	0-15 V adjustable	Unit label and source family
DC current	0-60 A adjustable	0-85 A adjustable	Offer title/parameters and separate source variants
Catalog power	720 W	1020 W	Current product database; these equal 12 V x rated current
15 V x current envelope	900 W	1275 W	Calculated upper V x I envelope; do not assume both maxima are continuously available
Dimensions	235 x 97 x 56 mm	235 x 97 x 56 mm	Offer records and family imagery; also stated by independent KT01 mirror
Cooling	Rear forced-air fan	Rear forced-air fan	Visible on offer and source imagery
Output lead	Clamp lead shown	Clamp lead shown	Capacity.Li also lists an Anderson option; verify the supplied connector



Capacity.Li source-family imagery showing the same 0-15 V adjustable label, 0-85 A variant, two front controls, V/A display and enclosure. Source image is evidence for the complete analogue, not proof of the original maker of offers #43/#44.

Front-panel interpretation

The display shows output voltage and current. Two adjustment controls are present, but colour and physical position may differ by batch. Identify the voltage control by observing the voltage display with no battery connected; set current to minimum before battery connection. Do not assign control function by knob colour alone.

Conservative quick start

High-current charging can cause fire, cable overheating, battery damage or injury. Use only with a battery whose manufacturer and BMS explicitly permit the selected charge voltage and current.

Step	Action	Reason / check
1	Inspect the charger, AC cord, DC leads, clamps/connectors and fan opening. Place the unit on a dry, non-combustible, ventilated surface.	Do not use damaged cables, loose terminals or a blocked fan.
2	Confirm battery chemistry, series count, permitted charge voltage and maximum charge current from the battery/BMS documentation.	The words '12 V' do not define one safe voltage for every chemistry.
3	Keep the battery disconnected. Connect the charger to AC power, set the output voltage while watching the display, then set current to minimum.	This matches the printed family sequence and independent KT01 instruction mirror.
4	Verify polarity at the battery connector: red to positive (+), black to negative (-). Connect securely with AC present only if the specific installation permits this sequence.	The source warns that reverse polarity may cause damage. Never rely solely on claimed protection.
5	Increase charge current slowly to a value allowed by the battery, BMS, cabling, connector and charger. Monitor voltage, current, temperature and fan operation.	Stop immediately for smell, smoke, arcing, abnormal heat, unstable display or fan failure.
6	During charging, do not change the voltage setting. A lower displayed voltage during constant-current operation can be normal; do not compensate by turning voltage up.	The family label and KT01 mirror both give this warning.
7	To stop, reduce current, isolate AC power, confirm output has ceased, and then disconnect the battery using insulated handling appropriate to the connector.	Do not leave the charger connected and unattended after charging.

SETTING BOUNDARY

The Capacity.Li page mentions 14.6 V for a 12 V LiFePO4 mode, but this reference does not prescribe 14.6 V universally. Use the exact battery and BMS limits. The same applies to lead-acid and Li-ion packs.

Operating notes and limitations

Observation	Interpretation / action
Output voltage falls after the battery is connected	This can be normal in constant-current operation. Do not turn the voltage up while connected; verify that current and temperatures remain within limits.
Current falls near the end of charge	May be normal CC/CV behaviour, but near-zero current can also indicate BMS cutoff, a poor connection or protection state. Confirm battery status independently.
Fan runs continuously or is noisy	The independent KT01 mirror describes continuous fan operation while powered. Keep airflow clear. Stop use if the fan stalls or the enclosure overheats.
No display or no output	Check the AC source, cord seating, visible cable damage and battery/BMS state. Do not open the mains-powered enclosure; refer internal repair to qualified service personnel.
Photo shows a different current number	Stored cards use shared family promotional images. Select the actual unit by its offer title, purchase record and any unit-specific marking; never use a photograph's demo display as the rating.

Source provenance

Primary full-analogue source: Capacity.Li product page, '12V 20A/30A/60A/85A/100A Smart Battery Charger'. It explicitly compares the 60 A and 85 A clamp/Anderson variants, AC 100-240 V input, 0-15 V adjustable output and matching family construction. [Open Capacity.Li source page](#). Accessed 2026-07-22.

Independent instruction mirror: Manuals+ page for 'capacity.Li KT01 Lifepo4 / Lithium Battery Charger'. It covers the 50/60/85/100 A family, 0-15 V adjustment, 235 x 97 x 56 mm case, setup sequence, warnings and troubleshooting. Manuals+ states that it is an independent publication; no verifiable original manufacturer PDF is supplied. [Open independent KT01 mirror](#). Accessed 2026-07-22.

Source brand: Capacity.Li. Hosting sites: capacityli.com and manuals.plus. Original manufacturer of offers #43/#44: not established. Original source PDF: not found. This document is a research-generated reference and must remain a draft until a physical unit is checked.

Known conflicts kept out of operative claims

The database lists 1 kg for both offers, while the independent KT01 mirror lists 1.8 kg; weight is therefore unresolved. The mirror also mentions interfaces or accessories that are not visible in these offer cards. Those statements are not treated as applicable. Protection features advertised by the source are not a substitute for correct polarity, external circuit protection and rated cabling.

Rejected near-match

The Phonix FX11105000 datasheet covers a visually similar 0-15 V / 100 A / 1500 W charger with natural cooling. It does not cover the 60 A or 85 A fan-cooled variants and was not attached.