

QDTB® TRANSFORMER

KB

Battery Chargers

PRODUCT DATASHEET

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KB — Series Overview

The KB series high-frequency battery chargers use advanced high-frequency switching technology for compact size and high efficiency battery charging.

Key Features

- High-frequency switching topology
- Compact and lightweight
- High efficiency >85%
- Intelligent charging profiles

Typical Applications

- Portable charging stations
- Emergency power systems
- Battery maintenance
- Small UPS systems

Model Number Breakdown

K — Charger

B — High-frequency

Model Specifications

40 model(s) in the KB series. Weight and dimensions are typical reference values, subject to confirmation.

Model	Charge Current	Input Voltage	Output Voltage	Efficiency	Protection	Weight (kg) †	Dimensions (L×W×H) †
KB-12V-20A	240 A	220V/380V AC	12V	≥85%	Over-voltage, over-current, short-circuit, reverse-polarity	4.5 kg	310×210×70 mm
KB-24V-20A	480 A	220V/380V AC	24V	≥85%	Over-voltage, over-current, short-circuit, reverse-polarity	4.5 kg	310×210×70 mm
KB-12V-40A	480 A	220V/380V AC	12V	≥85%	Over-voltage, over-current, short-circuit, reverse-polarity	4.5 kg	310×210×70 mm
KB-12V-60A	720 A	220V/380V AC	12V	≥85%	Over-voltage, over-current, short-circuit, reverse-polarity	6 kg	350×145×120 mm
KB-48V-20A	960 A	220V/380V AC	48V	≥85%	Over-voltage, over-current, short-circuit, reverse-polarity	6 kg	350×145×120 mm
KB-24V-40A	960 A	220V/380V AC	24V	≥85%	Over-voltage, over-current, short-circuit, reverse-polarity	6 kg	350×145×120 mm
KB-12V-80A	960 A	220V/380V AC	12V	≥85%	Over-voltage, over-current, short-circuit, reverse-polarity	6 kg	350×145×120 mm
KB-12V-100A	1200 A	220V/380V AC	12V	≥85%	Over-voltage, over-current, short-circuit, reverse-polarity	6 kg	350×145×120 mm
KB-24V-60A	1440 A	220V/380V AC	24V	≥85%	Over-voltage, over-current, short-circuit, reverse-polarity	6 kg	350×145×120 mm
KB-12V-150A	1800 A	220V/380V AC	12V	≥85%	Over-voltage, over-current, short-circuit, reverse-polarity	11 kg	450×225×155 mm
KB-48V-40A	1920 A	220V/380V AC	48V	≥85%	Over-voltage, over-current, short-circuit, reverse-polarity	11 kg	450×225×155 mm
KB-24V-80A	1920 A	220V/380V AC	24V	≥85%	Over-voltage, over-current, short-circuit, reverse-polarity	11 kg	450×225×155 mm
KB-110V-20A	2200 A	220V/380V AC	110V	≥85%	Over-voltage, over-current, short-circuit, reverse-polarity	11 kg	450×225×155 mm
KB-24V-100A	2400 A	220V/380V AC	24V	≥85%	Over-voltage, over-current, short-circuit, reverse-polarity	11 kg	450×225×155 mm
KB-12V-200A	2400 A	220V/380V AC	12V	≥85%	Over-voltage, over-current, short-circuit, reverse-polarity	11 kg	450×225×155 mm
KB-48V-60A	2880 A	220V/380V AC	48V	≥85%	Over-voltage, over-current, short-circuit, reverse-polarity	11 kg	450×225×155 mm
KB-24V-150A	3600 A	220V/380V AC	24V	≥85%	Over-voltage, over-current, short-circuit, reverse-polarity	11 kg	450×225×155 mm
KB-12V-300A	3600 A	220V/380V AC	12V	≥85%	Over-voltage, over-current, short-circuit, reverse-polarity	11 kg	450×225×155 mm

Model	Charge Current	Input Voltage	Output Voltage	Efficiency	Protection	Weight (kg) †	Dimensions (L×W×H) †
KB-48V-80A	3840 A	220V/380V AC	48V	≥85%	Over-voltage, over-current, short-circuit, reverse-polarity	11 kg	450×225×155 mm
KB-220V-20A	4400 A	220V/380V AC	220V	≥85%	Over-voltage, over-current, short-circuit, reverse-polarity	11 kg	450×225×155 mm
KB-110V-40A	4400 A	220V/380V AC	110V	≥85%	Over-voltage, over-current, short-circuit, reverse-polarity	11 kg	450×225×155 mm
KB-48V-100A	4800 A	220V/380V AC	48V	≥85%	Over-voltage, over-current, short-circuit, reverse-polarity	11 kg	450×225×155 mm
KB-24V-200A	4800 A	220V/380V AC	24V	≥85%	Over-voltage, over-current, short-circuit, reverse-polarity	11 kg	450×225×155 mm
KB-110V-60A	6600 A	220V/380V AC	110V	≥85%	Over-voltage, over-current, short-circuit, reverse-polarity	20 kg	485×400×150 mm
KB-48V-150A	7200 A	220V/380V AC	48V	≥85%	Over-voltage, over-current, short-circuit, reverse-polarity	20 kg	485×400×150 mm
KB-24V-300A	7200 A	220V/380V AC	24V	≥85%	Over-voltage, over-current, short-circuit, reverse-polarity	20 kg	485×400×150 mm
KB-220V-40A	8800 A	220V/380V AC	220V	≥85%	Over-voltage, over-current, short-circuit, reverse-polarity	20 kg	485×400×150 mm
KB-110V-80A	8800 A	220V/380V AC	110V	≥85%	Over-voltage, over-current, short-circuit, reverse-polarity	20 kg	485×400×150 mm
KB-48V-200A	9600 A	220V/380V AC	48V	≥85%	Over-voltage, over-current, short-circuit, reverse-polarity	20 kg	485×400×150 mm
KB-110V-100A	11000 A	220V/380V AC	110V	≥85%	Over-voltage, over-current, short-circuit, reverse-polarity	40 kg	510×270×530 mm
KB-220V-60A	13200 A	220V/380V AC	220V	≥85%	Over-voltage, over-current, short-circuit, reverse-polarity	40 kg	510×270×530 mm
KB-48V-300A	14400 A	220V/380V AC	48V	≥85%	Over-voltage, over-current, short-circuit, reverse-polarity	40 kg	510×270×530 mm
KB-110V-150A	16500 A	220V/380V AC	110V	≥85%	Over-voltage, over-current, short-circuit, reverse-polarity	40 kg	510×270×530 mm
KB-220V-80A	17600 A	220V/380V AC	220V	≥85%	Over-voltage, over-current, short-circuit, reverse-polarity	40 kg	510×270×530 mm
KB-220V-100A	22000 A	220V/380V AC	220V	≥85%	Over-voltage, over-current, short-circuit, reverse-polarity	40 kg	510×270×530 mm
KB-110V-200A	22000 A	220V/380V AC	110V	≥85%	Over-voltage, over-current, short-circuit, reverse-polarity	40 kg	510×270×530 mm
KB-220V-150A	33000 A	220V/380V AC	220V	≥85%	Over-voltage, over-current, short-circuit, reverse-polarity	40 kg	510×270×530 mm
KB-110V-300A	33000 A	220V/380V AC	110V	≥85%	Over-voltage, over-current, short-circuit, reverse-polarity	40 kg	510×270×530 mm

Model	Charge Current	Input Voltage	Output Voltage	Efficiency	Protection	Weight (kg) †	Dimensions (L×W×H) †
KB-220V-200A	44000 A	220V/380V AC	220V	≥85%	Over-voltage, over-current, short-circuit, reverse-polarity	40 kg	510×270×530 mm
KB-220V-300A	66000 A	220V/380V AC	220V	≥85%	Over-voltage, over-current, short-circuit, reverse-polarity	40 kg	510×270×530 mm

† Typical values, subject to confirmation. Final dimensions and weights are per factory GA drawings and routine test reports.

Standards & Certification

ISO 9001 Certified — Quality Management System
CE marking — available on selected models
Design and testing per IEC 60076, IEC 60076-11 (dry-type), IEC 61330 (substations), GB 1094 and related international standards.

Note: Certification details and test reports are provided upon request for the specific model and destination market.

Inquiry & Contact

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QDTB® guarantees a response within 24 hours on business days. Send your model, capacity, voltage and quantity for a detailed quotation.