QA300A Series — 300 W Waterproof Outdoor Battery Charger

Aluminium-cased charger in six models from 12 V to 72 V packs, with per-chemistry charge voltages, 3-stage CC / CV / float charging and sealed cable-gland leads.

KEY FEATURES

- **Six models** — VT-QA300A-12 to -72, for 12 V to 72 V battery packs
- **Per-chemistry setpoints** — lead-acid, Li-ion and $LiFePO_4$ on every model
- **Constant current 3 A to 15 A**, matched to pack capacity
- **3-stage charging**: constant current, constant voltage, then float / trickle
- **≥90 % efficiency** at full-capacity load
- Protection: over-voltage, over-current, over-temperature, short circuit, reverse polarity
- LED status: red < 80 % · yellow > 80 % · green = fully charged
- Aluminium alloy case, **1.64 kg**

CHARGE VOLTAGE AND CURRENT BY MODEL

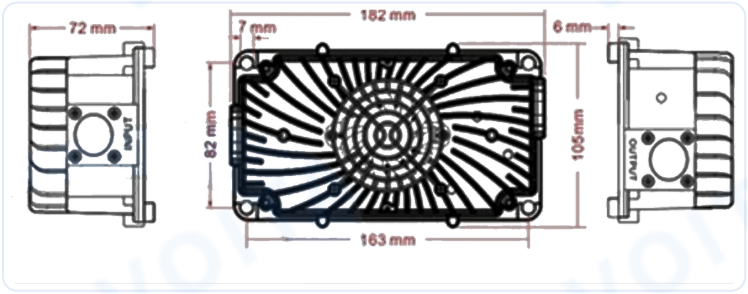
Model	CV, lead-acid	CV, Li-ion	CV, $LiFePO_4$	Constant current (A)	Cut-off, lead-acid (A)	Cut-off, Li (A)
VT-QA300A-12	14.7 V	16.8 V	14.6 V	15	3.0	0.75
VT-QA300A-24	29.4 V	29.4 V	29.2 V	8	1.6	0.40
VT-QA300A-36	44.1 V	42.0 V	43.8 V	6	1.2	0.30
VT-QA300A-48	58.8 V	54.6 V	58.4 V	5	1.0	0.25
VT-QA300A-60	73.5 V	67.2 V	73.0 V	3.5	0.7	0.175
VT-QA300A-72	88.2 V	84.0 V	87.6 V	3	0.6	0.15

CV = constant-voltage (voltage-limiting) setpoint. All six models share a 1.64 kg case and the same charging algorithm; only voltage setpoints and current ratings change.

GENERAL SPECIFICATION

Model series	QA300A — six models, VT-QA300A-12 to VT-QA300A-72
Battery voltage variants	12 V / 24 V / 36 V / 48 V / 60 V / 72 V
Rated output power	300 W platform rating
Charging mode	3-stage: constant current, constant voltage, then float / trickle
Efficiency	≥ 90 % at full-capacity load
Status indication	LED: red < 80 % · yellow > 80 % · green = fully charged
Protection	Over-voltage, over-current, over-temperature, short circuit, reverse polarity
Case	Aluminium alloy, finned
Cable entry	Sealed glands — input and output leads
Net weight	1.64 kg
Warranty	2 years standard, extendable by agreement

DIMENSIONS



Overall L×W×H	182 × 82 × 105 mm
Case body, excl. glands	72 mm
Face length, ears	163 mm
Net weight	1.64 kg

Dimensions in millimetres, taken from the drawing: overall 182 × 82 × 105 mm, measured over the cable glands; the case body measures 72 mm on that axis. 163 mm is the face length between the mounting ears. Drawings are not to scale.

TYPICAL APPLICATIONS

Electric scooters · self-balancing wheels · e-bikes

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