QA2000A Series — 2000 W Waterproof Smart Battery Charger

IP67 aluminium-cased charger for 12 V – 108 V battery packs, 2000 W output across nine voltage variants, with 3-stage charging control.

KEY FEATURES

- **2000 W** rated output across nine battery-voltage variants — 12 V to 108 V
- **3-stage charging**: constant current, constant voltage, then float / trickle
- **220 V AC or 110 V AC** input — separate versions, matched to the destination market
- **IP67 waterproof** construction — sealed aluminium alloy case with carry handle
- **≥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
- Compact **267 × 206 × 156.3 mm** case

OUTPUT SPECIFICATION BY VARIANT

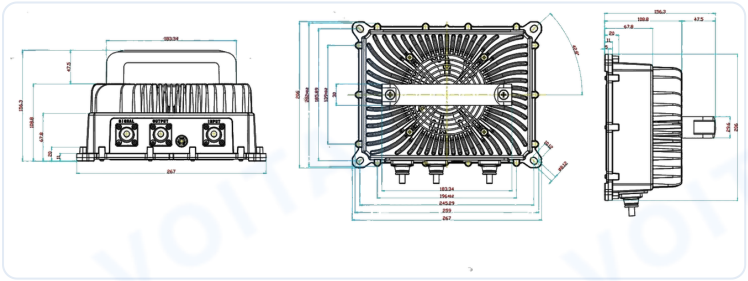
Battery pack voltage	36 V	48 V	60 V	72 V	84 V	96 V	108 V
Charging current (A)	40	30	25	20	15	15	12

Every variant carries the same 2000 W platform rating. Ratings apply identically to the 220 V AC and 110 V AC versions. The 12 V and 24 V points exist in the platform matrix without a charging-current rating — ask us if you need them rated.

GENERAL SPECIFICATION

Rated output power	2000 W
AC input	220 V AC or 110 V AC — separate versions
Battery voltage variants	36 V / 48 V / 60 V / 72 V / 84 V / 96 V / 108 V
Charging mode	3-stage: constant current, constant voltage, then float / trickle
Efficiency	≥ 90 % at full-capacity load
Protection	Over-voltage, over-current, over-temperature, short circuit, reverse polarity
Ingress protection	IP67
Certification	CE, RoHS — marked on the rating label
Warranty	2 years standard, extendable by agreement

DIMENSIONS



Overall length	267 mm
Overall width	206 mm
Overall height	156.3 mm
Body height, excl. handle	108.8 mm
Net weight	5.55 kg

Three views — terminal face, top and end. All dimensions in millimetres, measured over the closed case. Overall height is taken with the carry handle raised: body 108.8 mm plus 47.5 mm handle. Drawings are not to scale.

PROTECTION & SAFETY

Over-temperature	Output derated above the internal limit; standby above 65 °C ambient until cooled.
Reverse connection	Charger and battery shut down if the battery is reversed — charger undamaged.
No-load	No output while no battery is connected.
Short circuit	Shuts down on an output short; resumes after the fault is cleared and a restart.
Full-charge cut-off	Charging switches off automatically once the battery is judged full.

All five items are fitted as standard on every variant, together with over-voltage and over-current limiting.

CONNECTOR OPTIONS

DC output
Sealed cable gland with flying leads; output connector selected per order destination and battery connector.

AC input
Sealed cable gland, 220 V AC or 110 V AC version; mains plug matched to the destination market.

Custom plug builds — connector type, cable length and orientation — are available to order. Typical applications: golf carts, electric vehicles, floor-cleaning machines and industrial battery banks.

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