QA1200A Series — 1200 W Smart Golf Cart Battery Charger

IP67 aluminium-cased charger for 12 V – 108 V lead-acid, LiFePO4 and Li-ion packs, with chemistry-specific charging voltages and 3-stage charging control.

KEY FEATURES

- **1200 W** rated output across nine variants — 12 V to 108 V in 12 V steps
- Chemistry-specific constant-voltage setpoints for **lead-acid, LiFePO4 and Li-ion**
- **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, forced-air cooled
- **≥90 % efficiency** at full-capacity load; **3.9 kg** with mounting flanges
- Protection: over-voltage, over-current, over-temperature, short circuit, reverse polarity
- Certified to **CE, FCC, RoHS, RCM, SAA and IEC**

OUTPUT SPECIFICATION BY VARIANT

Battery pack voltage	12 V	24 V	36 V	48 V	60 V	72 V
Charging current (A)	45	30	25	20	15	14
CV — Lead-acid (V)	14.7	29.4	44.1	58.8	73.5	88.2
CV — Li-ion (V)	16.8	29.4	42.0	54.6	67.2	84.0
CV — LiFePO4 (V)	14.6	29.2	43.8	58.4	73.0	87.6
Cut-off — Lead-acid (A)	7.0	6.0	5.0	3.6	3.0	2.4
Cut-off — Li (A)	1.75	1.50	1.25	0.90	0.75	0.60
Extended range	84 V · 12 A		96 V · 10 A		108 V · 8 A	

CV = constant voltage, CC = constant current. All nine variants share the same 1200 W rated output and 3.9 kg net weight; the three CV rows are alternative chemistry settings for the same output variant. Constant-voltage points for the 84 / 96 / 108 V variants are configured against your battery datasheet at order.

GENERAL SPECIFICATION

Rated output power	1200 W
AC input	220 V AC or 110 V AC — separate versions
Battery voltage variants	12 V / 24 V / 36 V / 48 V / 60 V / 72 V / 84 V / 96 V / 108 V
Supported chemistries	Lead-acid, LiFePO4, Li-ion
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
Ingress protection	IP67
Certification	CE, FCC, RoHS, RCM, SAA, IEC
Case / cooling	Sealed aluminium alloy case, forced-air cooled, carry handle
Dimensions (L × W × H)	280 × 197 × 85 mm · mounting hole pitch 231 mm
Net weight	3.9 kg
Warranty	2 years standard, extendable by agreement

DIMENSIONS

Overall length	280 mm
Overall width	197 mm
Overall height	85 mm
Mounting hole pitch	231 mm

Outline dimensions in mm — 280 (L) × 197 (W) × 85 (H). Handle and cable glands shown for reference.

CONNECTOR OPTIONS

DC output plugs

DC plug 5.5×2.1 / 5.5×2.5 · Crocodile clips · 30 A and 50 A Anderson · IEC (N + L−) · EV plug · XLR 3-pin and 4-pin, female XLR · Air plug 2 / 3 / 4 / 5-pin · XT60 / XT90 · terminal ring · RCA plug and male RCA · IEC elbow / straight

AC input plugs

UK · EU · US · CN · Brazil · AU · India · Israel · Switzerland · Japan · Korea

Plugs are selected per order destination and battery connector. Custom plug builds — connector type, cable length and orientation — are available to order.

TYPICAL APPLICATIONS

Golf carts · electric yachts · electric beach cars · electric buses

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