

QA300A SERIES INTELLIGENT CHARGER

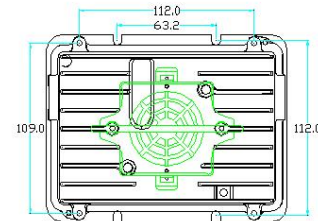
This series chargers designed with sealed structure. It suitable for flooded lead acid batteries, sealed lead acid batteries, lithium-ion batteries, LifePO4 batteries, nickle cadmium batteries and etc. They are used to cycle charge or floating charge battery pack in semi-electric stacker, e-motor, AGV, Fork lifting platform, walk-behind mowers, energy storage power, electric bike, electric boats and so on.

Models	Rated Voltage for Battery Pack	Max Output Voltage	Max Output current	CV			Transition/cut-off Current
				Lead Acid	Li-ion	LiFePO4	Li
QA300A-12V15A	12V	17V	15A	14.7V	12.6V	14.6V	1.5A
QA300A-24V10A	24V	34V	15A	29.4V	29.4V	29.2V	1.0A
QA300A-36V06A	36V	48V	10A	44.1V	42.0V	43.8V	1.0A
QD300A-48V05A	48V	66V	06A	58.8V	54.6V	58.4V	1.0A



TECHNOLOGY PARAMETERS

- AC Input Voltage Range: 180-264VAC; 45-65Hz
- AC Input Max Current: 2A@220VAC
- Efficiency: $\geq 89.0\%$
- Noise: $\leq 45\text{dB}$



PRODUCT CHARACTERISTICS

SAFFTY

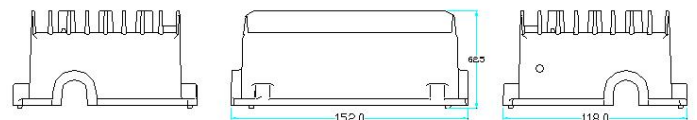
- Active flyback technique is applied for a rapid respond on a fault; Quick active software self-protection and reliable passive hardware self-protection on voltage & current; Advanced charging strategy is integrated as a safeguard for battery system.

RELIABILITY

- The shell is shaped by extrude aluminum technique. The active cooling fan is also designed to be a fan with a potting structure and a longer life. This charger series have been operating in all kinds of industrial environment (wet. hot. cold. high altitude) for more than ten years, the design is proved to pass the verification.

SIZE & WEIGHT & TEMPERATURE

- Net Weight: 1.3kg
- Operating Temperature: $-30^{\circ}\text{C} - 65^{\circ}\text{C}$
- Storage Temperature: $-40^{\circ}\text{C} - 95^{\circ}\text{C}$
- Size: 152*118*62.5mm



PROTECTION FUNCTIONS

- Burnout Protection: Temperature of charger exceeds the limitation. The charge will low down the power load. Temperature of environment exceeds 65°C , the charger will stop charging and switch itself to standby mode until temperature of environment goes down.
- Protection for Reverse Connection of Batteries: The circuit inside the charger shuts down with batteries when the batteries are connected reversely and will not damage the charger.
- NO-load Protection: There is no output when the batteries are not connected.
- Short Circuit: The circuit inside the charger shuts down with batteries when output is short circuit. The charger will start charging only after troubleshooting and restart the charger.
- Automatic shutdown when fully charging: The charging automatically turns off after the battery is fully charged according to the charger's judgment.