

QA1000A SERIES ON-BOARD SEAL CHARGER

This series chargers design of sealed structure. It suitable for flooded lead acid batteries, sealed lead acid batteries, Lithium batteries, NI-MH batteries, Nickle Cadmium batteries, etc. They ate used to cycle charge or floating charge battery pack in electric cars, sightseeing vehicles, patrol vehicles, fork lifts, Aerial work platforms. Floor Sweeper, Electric Motorcycles, Electric Sweepers, Electric Surfboards, Electric Golf Carts, Electric Vehicles, Electric Sweepers, Electric tricycle .

Models	Rated Voltage for Battery Pack	Max Output Voltage	Max Output current	CV			Transition/cut-off Current
				Lead Acid	Li-ion	LiFePO4	
QA1000A-24V25A	24V	34V	25A	29.4V	29.4V	29.2V	3.0
QA1000A-36V20A	36V	48V	20A	44.1V	42.0V	43.8V	3.0
QA1000A-48V18A	48V	68V	18A	58.8V	54.6V	58.4V	2.0
QA1000A-60V15A	60V	85V	15A	73.5V	67.2V	73.0V	1.5
QA1000A-72V12A	72V	102V	12A	88.2V	84.0V	87.6V	1.0



TECHNOLOGY PARAMETERS

- AC Input Voltage Range : 180-264VAC; 45-65Hz
- AC Input Max Current : 7.5A@220VAC
- Power Factor : ≥ 0.99
- Efficiency: $\geq 93.0\%$
- Noise : $\leq 45\text{dB}$
- Protection : IP65

PRODUCT CHARACTERISTICS

SAFFTY

● Active PFC and LLC 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

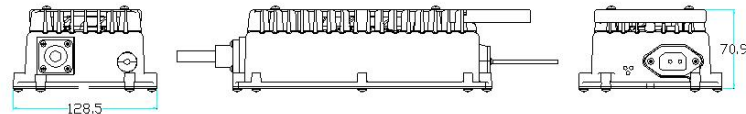
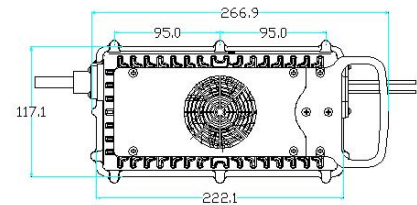
● The shell is shaped by integrated die casting technique. And filled with special glue. The active cooling fan is also designed to be a fan with a potting structure and a longer life. Products of Charger Series have been operating in all kinds of industrial environment (Wet. Hot. Cold. High altitude) for more than ten years,the design is proved to pass the verification.

FUNCTIONS

- Triple Colors Indicator
- CAN BUS Interface

SIZE AND WEIGHT&TEMPERATURE

- Net Weight: 2.5kg
- Operating Temperature: -30°C — 65°C
- Storage Temperature: -40°C — 95°C
- Size: 266.9*128.5*70.9mm



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.