

● Lithium battery charger for AGV and AMR



Features ● ● ●



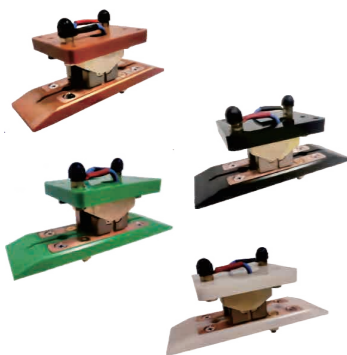
- **High-quality.** Steel-carbon alloy brush with great electrical conductivity, strong mechanical strength, excellent insulation, great heat resistance, and high corrosion resistance, allowing for customization.
- **Flexible and smart.** Able to charge for AGV with charging ports at the side, at the front or at the bottom. Wireless communication to smartly make AGV chargers to communicate and connect AGV.
- **Precise positioning.** Infrared positioning in transmitting-receiving, reflection, or diffuse reflection way. High-precision infrared photoelectric sensor.
- **Automatic.** Under automatic mode, it can charge automatically without being supervised by a person. It also has a manual mode.
- **Excellent electrical properties.** PFC+LLC soft switching technology with high conversion efficiency and high density of module power.
- **User-friendly and convenient UI.** Manage charging through LCD display +TP+LED+buttons.

Model	AGVC-80V200A-FT
<b>DC Output</b>	
Rated Output Power	16kW
Rated Output Current	200A
Output Voltage Range	30VDC~100VDC
Current Adjustable Range	5A~200A
Peak Noise	≤1%
Voltage Regulation Accuracy	≤±0.5%
Efficiency	Out of load ≥50%, When rated, the overall efficiency ≥92% Out of load <50%, When rated, the overall efficiency ≥99%
Protection	Short circuit, Overcurrent, Overvoltage, Reverse Connection and Over-Temperature Protection
<b>AC Input</b>	
Input Voltage	AC 380V Three-phase Four-wire
Input current range	<36A
Frequency	50Hz~60Hz
(PF)Power Factor	≥0.94
(HDI)Current Distortion	≤5%
Input Protection	Overvoltage, Under-voltage, Overcurrent and lack of phase Protection
<b>Working Environment</b>	
Working Environment Temperature	-20°C~45°C work normally
	45°C~65°C reduce output
	Over 65°C Shutdown
Storage Temperature	-40°C~75°C
Relative Humidity	0~95%
Altitude	≤2000m Full load output, >2000m Use in accordance with the provisions of 5.11.2 in GB/T389.2-1993
<b>Product Safety and Reliability</b>	
Insulation Strength	IN-OUT: 2800VDC/10mA/1Min IN-SHELL: 2800VDC /10mA/1Min OUT-SHELL: 2800V DC/10mA/1Min
	IN-OUT: DC 500V>10MΩ IN-SHELL: DC500V>10MΩ OUT-SHELL: DC500V>10MΩ
<b>Dimensions and Weight</b>	
Control Box Dimensions(mm)	655(L)x540(W)x570(H)
Telescopic Box Dimensions(mm)	630(L)x250(W)x580(H)
Net Weight	60KG

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- **CAN communication.** Communicate with lithium battery BMS to intelligently manage battery charging to ensure fast charging and longer battery life.
- **Wide input voltage.** Provide battery with stable and reliable charging under unstable power supply.
- **Protection.** With protection of overcharge, over-voltage, over-current, over-temperature, short circuit, input phase loss, input over-voltage, input under-voltage, lithium battery abnormal charging, and diagnosis and displaying of charging problems.

Model	AGVC-80V200A-FT
Other	
BMS Communication Method	CAN Communication
BMS Connection Method	CAN-WIFI or physical contact of CAN modules at AGV and charger
Dispatching Communication Method	Modbus STA, Modbus AP
Dispatching Connection Method	Modbus-wifi or Ethernet
WIFI Bands	2.4G, 4G, 5.8G
Method of Starting Charging	Infrared, Modbus, CAN-WIFI
AGV Brush Parameters	Follow AiPower standard or drawings provided by customers
Structure of Charger	All-in-one, split-type
Charging Method	Charger Connector Telescoping; AGV moving towards charger to get charged
Cooling Method	Forced air cooling
Manual Charging	All-in-one to charge manually with communication or without communication
Telescopic Stroke of Brush (with telescopic model)	200MM
TAGV Positioning Distance (with telescopic model)	165MM - 325MM
Height from AGV Connector Center to the Ground	185MM - 400MM

**Application** ● ● ●

