



4 to 6.7 kW Multi-Port Charging System

MOOV^{base}

Highly efficient fleet charging for indoor applications of AGVs and light electric vehicles

- Worldwide Single-phase AC
- Lithium Ion Ready
- Simultaneous Autonomous Charging of Multiple Vehicles



Industrial



Battery
Charging



Logistics



MOOV^{base} Charging System



Reduced installation complexity and infrastructure costs

- Serve multiple charge points from
 - Single AC line
 - Single data connection
 - Single charger unit to set up
- Worldwide single-phase AC inputs

Solutions for any battery or vehicle

- Models for 24V, 36V and 48V batteries
- Lithium Ion Ready
- Suitable for conventional connectors and for charging contacts

Maximized fleet uptime

- Simultaneous charging of multiple vehicles with different batteries
- Fast and frequent autonomous charging in 24/7 operations or conventional overnight charging
- Protection features for auto-docking vehicles
- Recovery mode for over-discharged AGV

IoT ready

- Connect to existing warehouse/fleet management systems
- Care for batteries by control and monitoring of the charge process
- Perform facility energy management
- Low effort integration with Software Development Kit

Specification

AC Input	3 bay	5 bay
AC input rated voltage	100 to 240 V _{AC} 1-phase	200 to 240 V _{AC} 1-phase
Power factor (100% load)	0.98 to 0.99	
Efficiency (50%-100% load)	≥ 91%	

Charger Output	3 bay	5 bay
Battery types	Lithium Ion (LFP, LNMC, LTO), Lead acid (Wet / AGM / GEL)	
Charge control	CC/CV charging, Ethernet control of multi-stage profiles, Deep discharge recovery	
DC connector	3 x SBS75X	5 x SBS75X

Mechanical Design	3 bay	5 bay
Dimensions (L x W x H)	290 x 290 x 402 mm (11.4 x 11.4 x 15.8 in)	384 x 290 x 402 mm (15.1 x 11.4 x 15.8 in)
Weight	16.2 kg (35.7 lb)	24.1 kg (53.1 lb)
Cooling	Internal fans	
Communication connector	RJ45	

Reliability	
Protections	Electrical, Thermal, Communications, and Software Protections DC Interlock
Serviceability	Replaceable Power Modules, Fans, and Air Filter

Environmental Conditions	
Operating temperature	-10 °C to +55 °C (14 °F to +131 °F)
Relative humidity	5% to 85%, non-condensing
Maximum operating altitude	3,000 m (9,842 ft)
Protection degree	IP20 / NEMA1

Approvals and Compliance		North America	Europe
Safety certifications and approvals	3-Bay & 5-Bay	UL and CSA certified to UL1564, C22.2 107.2-01, UL/CSA 62368-1. CEC	IEC/EN 62368-1
Safety Marks		cULus, cCSAus, CE, UKCA	

3 Bay Variant Summary						
Configuration	Input Voltage Range (V _{AC})	Nominal Output (V _{DC})	Output Range (V _{DC})	Output Max Current (A)	Max Power (W)	
					120 V _{AC}	230 V _{AC}
24V 3B30	90 to 265	24	9 to 35	3 x 45	3600	4050
48V 3B30	90 to 265	36 / 48	12 to 70	3 x 26	3600	4050

5 Bay Variant Summary					
Configuration	Input Voltage Range (V _{AC})	Nominal Output (V _{DC})	Output Range (V _{DC})	Output Max Current (A)	Max Power (W)
24V 5B50	180 to 265	24	9 to 35	5 x 45	6750
48V 5B50	180 to 265	36 / 48	12 to 70	5 x 26	6750



More information

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