



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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