


# 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

Battery Charging
Industrial
Logistics

DELTA

# MOOV$^{base}$ Multi-Port 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

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# Specifications

| Product line | MooV$^{base}$ 4 to 6.7 kW Multi-Port Charging System | |
|---|---|---|
| **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),<br>Lead acid (Wet / AGM / GEL) | |
| Charge control | CC/CV charging,<br>Ethernet control of multi-stage profiles,<br>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<br>(11.4 x 11.4 x 15.8 in) | 384 x 290 x 402 mm<br>(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<br>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,<br>C22.2 107.2-01,<br>UL/CSA 62368-1. CEC | IEC/EN 62368-1 |
| Safety Marks | | $_{c}$ULus, cCSAus, CE, UKCA | |

**3-bay Variant Summary**

| Configuration | Input Voltage Range | Nominal Output | Output Range | Max. Output Current | Max. Power | |
|---|---|---|---|---|---|---|
| | | | | | 120 $V_{AC}$ | 230 $V_{AC}$ |
| 24V 3B3O | 90 to 265 $V_{AC}$ | 24 $V_{DC}$ | 9 to 35 $V_{DC}$ | 3 x 45 A | 3600 W | 4050 W |
| 48V 3B3O | 90 to 265 $V_{AC}$ | 36 / 48 $V_{DC}$ | 12 to 70 $V_{DC}$ | 3 x 26 A | 3600 W | 4050 W |

**5-bay Variant Summary**

| Configuration | Input Voltage Range | Nominal Output | Output Range | Max. Output Current | Max Power |
|---|---|---|---|---|---|
| 24V 5B5O | 180 to 265 $V_{AC}$ | 24 $V_{DC}$ | 9 to 35 $V_{DC}$ | 5 x 45 A | 6750 W |
| 48V 5B5O | 180 to 265 $V_{AC}$ | 36 / 48 $V_{DC}$ | 12 to 70 $V_{DC}$ | 5 x 26 A | 6750 W |

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