

## Model # MEVD120K

3-Ph, 380/400/415V, 50/60Hz, 120KW DC Magnizon's Smart DC Fast EV charging stations

### Product Description

**MEVD120K is a Magnizon's fast EV DC 120KW charger with two** charging guns. It can deploy charging network rapidly and effectively, providing high-power quick charging service for all brands of electric vehicles. It has a durable, robust, all-weather enclosure for indoor and outdoor use and support CCS & CHAdeMO standards. This all-in-one DC charger consists of billing control unit, charging control unit, charging module and input / output power distribution unit. It is applicable for expressway, urban public parking station and enterprises' parking lot.



### Types of connectors:

- ❖ CCS + CHAdeMO default,
- ❖ AC type 2 connectors
- ❖ Optional Multiple configuration (CCS2 , CHAdeMO, type T2)

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### Key Features

- ❖ Compact and contemporary design
- ❖ 20 kW/30kW continuous fast charging
- ❖ Robust, all-weather enclosure for indoor and outdoor use( IP54)
- ❖ Highest efficiency in the range : 97%
- ❖ 7" Graphical user interface for status and configurations
- ❖ Single outlet: CCS or CHAdeMO
- ❖ Daylight readable 7" full color touchscreen display
- ❖ RFID reader RFID and ISO 15118 user identification
- ❖ Future proof connectivity:
- ❖ OCPP and network connectivity enabling system integration
- ❖ Capability for remote services
- ❖ Future proof due to DC output voltage range from 200 to 1000 VDC supporting most kinds of electric vehicles.
- ❖ EV standards: IEC 62196, IEC 61851, JEVS G105

### Applications

- ❖ Highway Service Stations
- ❖ Short term Parking Offices and Commercial Buildings
- ❖ Public operations such as highway rest stops, petrol stations, airport etc
- ❖ Private operations such as EV dealers, EV fleets etc.
- ❖ Compatible vehicles: BMW, Volkswagen, GM, Porsche, Audi, Nissan, Mitsubishi, Peugeot, Citroen, Kia, Renault, Daimler, Tesla, Smart, Mercedes

### Optional Charger connections

#### IEC DC Charging Systems

|               | System A<br>CHAdeMO (Japan)                                                         | System B<br>GB/T (PRC)                                                              | System C                                                                             |                                                                                       |
|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|               |                                                                                     |                                                                                     | COMBO1 (US)                                                                          | COMBO2 (DE)                                                                           |
| Connector     |  |  |  |  |
| Vehicle Inlet |  |  |  |  |

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### Specifications

| MODEL                                      | MEVD120K                                                                                                                                                                                      |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>INPUT</b>                               |                                                                                                                                                                                               |
| Input voltage                              | 260 ~ 470 V (three-phase five-wire)                                                                                                                                                           |
| Input current                              | ≤200 A                                                                                                                                                                                        |
| AC input frequency                         | 40 ~ 70 Hz                                                                                                                                                                                    |
| Efficiency                                 | ≥ 97%                                                                                                                                                                                         |
| Power factor                               | ≥ 0.99                                                                                                                                                                                        |
| Input THD                                  | ≤ 5%                                                                                                                                                                                          |
| <b>OUTPUT</b>                              |                                                                                                                                                                                               |
| Output voltage range                       | 200 ~1000 V                                                                                                                                                                                   |
| Rated output current                       | 200Amp                                                                                                                                                                                        |
| DC Output power                            | 120KW                                                                                                                                                                                         |
| DC Voltage Ripple + Noise                  | 500 mVp-p                                                                                                                                                                                     |
| DC Current Ripple                          | <1 Arms @ Rated Power                                                                                                                                                                         |
| Soft start time                            | 3 ~ 8 s                                                                                                                                                                                       |
| Voltage regulation accuracy                | ≤ ± 0.5%                                                                                                                                                                                      |
| Current regulation accuracy                | ≤ ± 1%                                                                                                                                                                                        |
| Ripple coefficient (peak value)            | ≤ ± 0.5%                                                                                                                                                                                      |
| Current-sharing unbalanced degree          | ≤ ± 5% (50% ~ 100% rated load)                                                                                                                                                                |
| Noise                                      | < 65 dB                                                                                                                                                                                       |
| Protection                                 | Overcurrent, Under voltage, Overvoltage, Residual current, Surge, Short circuit, Ground fault, Emergency shutdown alarm, Over temp, Electric shock, Input phase reversal, Plug out protection |
| <b>CHARGING CONFIGURATION AND STANDARD</b> |                                                                                                                                                                                               |
| Number of charging plugs                   | 2                                                                                                                                                                                             |
| Charging cable length                      | 5 m                                                                                                                                                                                           |
| Charging protocols                         | CCS and CHAdeMO                                                                                                                                                                               |
| DC Output plug Types Options               | CCS2, CCS1, CHAdeMO, GB/T                                                                                                                                                                     |
| HMI                                        | 7" graphical LCD, Push buttons for commands                                                                                                                                                   |
| Support Languages                          | Dual language (Local plus English)                                                                                                                                                            |
| Power Management                           | Configurable dynamic load distribution (dual DC outputs)                                                                                                                                      |
| User Authentication                        | ISO / IEC 14443 A / B Mifare RFID reader                                                                                                                                                      |
| Network Interface                          | Ethernet, GSM/3G/4G, Wifi/WLAN, Bluetooth                                                                                                                                                     |
| Communication Protocol                     | OCPP 1.6, others by request                                                                                                                                                                   |
| Standards                                  | IEC 62196, IEC 61851, JEVS G105                                                                                                                                                               |
| Quality Standards                          | ISO9001:2015, ISO14001:2015, RoHs                                                                                                                                                             |
| <b>OTHERS</b>                              |                                                                                                                                                                                               |
| Operating temperature                      | -20°C ~ +50°C                                                                                                                                                                                 |
| Storage temperature                        | -40°C ~ +80°C                                                                                                                                                                                 |
| Relative humidity                          | ≤ 95%                                                                                                                                                                                         |
| Atmospheric pressure                       | 70 kPa ~ 106 kPa                                                                                                                                                                              |
| IP rating                                  | IP 54                                                                                                                                                                                         |
| Dimensions (W × D ×H) (mm)                 | 1010x760x1860                                                                                                                                                                                 |
| Weight (kg)                                | 380Kgs                                                                                                                                                                                        |

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