



## EV Charging Solution

# AC Charger / AC MAX - Smart

- Flexible 22 kW AC platform to cater for diverse charging application requirements
- Low standby power consumption for energy-saving
- Compact design with robust enclosure for indoor and outdoor environment



Commercial  
Building



Parking



Residential  
Area



# Compact and Powerful - Liven up Home Charging

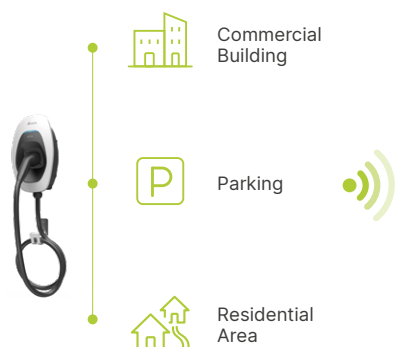
The Delta AC MAX Smart combines efficient 3-phase charging of up to 22 kW with Ethernet and WLAN interfaces to cater for a wide range of applications. The Delta AC MAX Smart can easily be connected to your existing network for energy management and business integration purposes. No LAN available? No problem! Every AC MAX Smart is equipped with an internal cellular modem. The plug-and-play design reduces

installation and commissioning time. By supporting Over-the-Air (OTA) firmware update via WLAN the Delta AC MAX Smart is the future-proof AC charging solution for advanced residential and commercial charging applications.



## Application Scenario

### Charging Network



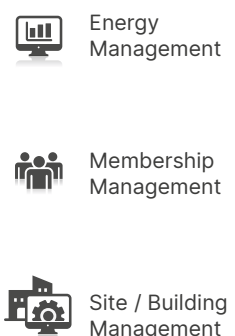
### Backend Office

EV Charging Network  
Management System



Mobile App access  
for remote control

### Applications



... and more

## Feature Highlights



AC charger to optimize charging activity

- Three phase charging with 22 kW output power
- Extremely low standby power for energy-saving and cost optimization



Complete system integration for better charging services

- OCPP protocol and network connectivity
- Interoperate with related business, service, and 3rd party applications



Compact design with robust enclosure

- Compact design : 218 × 371 × 167 mm
- All-weather protection : IP55 / IK09
- Optional wall mount or pedestal mount

## Product at a Glance

### Network Connectivity

Bluetooth, Ethernet, Cellular, WLAN

### Charging Interface

 IEC 62196-2 Type 2



### User Authentication

RFID reader

### Wiring

Bottom feed, Rear feed

# Specifications

| Part Number                    | AC MAX Smart                                                                                                                                                                 |                                                                 |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| Power Input                    | 3.7 kW / 11 kW                                                                                                                                                               | 7.4 kW / 22 kW                                                  |
| Nominal Current                | 16 A                                                                                                                                                                         | 32 A                                                            |
| Grid Connection                | Single-phase electric power (L1, N, PE)<br>Three-phase electric power (L1, L2, L3, N, PE)<br>All AC MAX BASIC models support both single phase and three phase installations |                                                                 |
| AC Voltage                     | 230 V / 400 V                                                                                                                                                                |                                                                 |
| Frequency                      | 50 Hz / 60 Hz                                                                                                                                                                |                                                                 |
| Grounding Systems              | TN, TT, IT                                                                                                                                                                   |                                                                 |
| Terminal                       | Terminal block                                                                                                                                                               |                                                                 |
| Protection                     | Over current, Under voltage, Over voltage, Over temperature, Surge protection, Short circuit, Ground fault                                                                   |                                                                 |
| Standby Power                  | < 10 W                                                                                                                                                                       |                                                                 |
| Charging Output                |                                                                                                                                                                              |                                                                 |
| Nominal Power                  | Single-phase: 3.7 kW, Three-phase: 11 kW                                                                                                                                     | Single-phase: 7.4 kW, Three-phase: 22 kW                        |
| Nominal Current                | 16 A per phase                                                                                                                                                               | 32 A per phase                                                  |
| Connector Type                 | AC Type 2 Plug                                                                                                                                                               | AC Type 2 Plug, AC Type 2 Socket, AC Type 2 Socket with shutter |
| Charging Voltage               | 230 V / 400 V                                                                                                                                                                |                                                                 |
| Cable Length                   | 5 m (models with AC Type 2 Plug charging interface)                                                                                                                          |                                                                 |
| Protection                     | RCD Type A (AC 30 mA), RDC-DD (DC 6 mA)                                                                                                                                      |                                                                 |
| Compliance                     | IEC 61851-1, IEC 62196-2, IEC61008-1, IEC 62955                                                                                                                              |                                                                 |
| User Interface                 |                                                                                                                                                                              |                                                                 |
| Display                        | Status LED, 4 colors                                                                                                                                                         |                                                                 |
| Authentication                 | RFID (ISO/IEC 1443 A/B)                                                                                                                                                      |                                                                 |
| Charger Configuration          | Maximum charging current selectable by 8-step hardware DIP switch                                                                                                            |                                                                 |
| Network Interface              |                                                                                                                                                                              |                                                                 |
| Bluetooth                      |                                                                                                                                                                              |                                                                 |
| Protocols and Applications     | Configuration, control, monitoring and firmware update                                                                                                                       |                                                                 |
| Cellular                       |                                                                                                                                                                              |                                                                 |
| Cellular Technology            | 2G / 3G / 4G                                                                                                                                                                 |                                                                 |
| SIM Card Format                | Micro-SIM (15 mm x 12 mm)                                                                                                                                                    |                                                                 |
| Protocols and Applications     | Backend Connection via OCPP 1.6 (tested with OCTT)                                                                                                                           |                                                                 |
| Local Area Network             |                                                                                                                                                                              |                                                                 |
| LAN Technology                 | Ethernet (RJ45) and WLAN                                                                                                                                                     |                                                                 |
| Protocols and Applications     | Backend Connection via OCPP 1.6 (tested with OCTT), ModBus TCP for energy management                                                                                         |                                                                 |
| Mechanical Properties          |                                                                                                                                                                              |                                                                 |
| Ingress Protection (IEC 60529) | IP55                                                                                                                                                                         |                                                                 |
| Impact Protection (IEC 62262)  | IK09                                                                                                                                                                         |                                                                 |
| Cooling                        | Natural convection                                                                                                                                                           |                                                                 |
| Dimensions* (W x H x D)        | 218 × 371 × 167 mm ( 8.6 × 14.6 × 6.6 inch)                                                                                                                                  |                                                                 |
| Weight*                        | 6.0 kg (13.3 lbs), including charging cable                                                                                                                                  |                                                                 |
| Environmental Conditions       |                                                                                                                                                                              |                                                                 |
| Operating Temperature Range    | - 30 °C to + 50 °C (- 22 °F to + 122 °F)                                                                                                                                     |                                                                 |
| Storage Temperature Range      | - 40 °C to + 80 °C (- 40 °F to + 176 °F)                                                                                                                                     |                                                                 |
| Humidity                       | < 95 % relative humidity, non-condensing                                                                                                                                     |                                                                 |
| Altitude                       | Up to 2,000 m (6,500 ft.)                                                                                                                                                    |                                                                 |
| Compliance                     |                                                                                                                                                                              |                                                                 |
| EU Low Voltage Directive       | IEC 61851-1, IEC 62479                                                                                                                                                       |                                                                 |
| EU EMI Directive               | EN 61000-3-11 / -12, IEC 61851-21-2                                                                                                                                          |                                                                 |

\* Product outlook depends on model configuration. Specifications are subject to change without notice.



More information

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