

### **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







# 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.



**Backend Office** 

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### **Application Scenario**

#### **Charging Network**



## **Applications** Energy Management Membership



Site / Building

Management

Mobile App\* access for remote control

## Feature Highlights

# 分 22 kW

# 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

### **Product at a Glance**

Network Connectivity Bluetooth, Ethernet, Cellular, WLAN

User Authentication RFID reader

Charging Interface

Wiring Bottom feed, Rear feed



# Compact design with robust enclosure

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

## Delta AC MAX App



#### Hassle-free Connection

Set up in a few steps to get AC MAX ready.

#### One Tap Charging

Start and stop charging with your smartphone. Monitor the status anytime.

#### Customize your Preference

Create your charging session schedule and user list to fit home charging needs.









#### **Embedded Features** 员 Start / Stop Charging <u>....</u> Scheduled charging (4) Maximum Charging Current $\stackrel{\checkmark}{\leftarrow}$ Firmware Update -̈̈́́Υ LED Indicator Brightness Ê≡Ÿ **Charging History** $(\mathcal{A})$ User Management Mobus Setting **{**0}



# Specifications

Part Number	AC MAX Smart		
Power Input	11 kW	22 kW	
Nominal Current	16 A	32 A	
Grid Connection	Three-phase electric power (L1, L2, L3, N, PE) 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	Three-phase: 11 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	ser 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 doponds on model configuration. Specifications are subject to change without notice			

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