



## 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



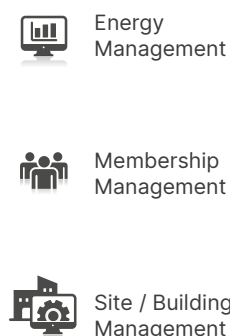
### Backend Office

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) 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	
<b>Charging Output</b>		
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	
<b>User Interface</b>		
Display	Status LED, 4 colors	
Authentication	RFID (ISO/IEC 1443 A/B)	
Charger Configuration	Maximum charging current selectable by 8-step hardware DIP switch	
<b>Network Interface</b>		
<b>Bluetooth</b>		
Protocols and Applications	Configuration, control, monitoring and firmware update	
<b>Cellular</b>		
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)	
<b>Local Area Network</b>		
LAN Technology	Ethernet (RJ45) and WLAN	
Protocols and Applications	Backend Connection via OCPP 1.6 (tested with OCTT), ModBus TCP for energy management	
<b>Mechanical Properties</b>		
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	
<b>Environmental Conditions</b>		
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.)	
<b>Compliance</b>		
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

## Delta Electronics (Australia) Pty Ltd.

Sydney: Unit 18/39 Herbert Street, St Leonards NSW 2065  
Melbourne: Unit 2A 18-24 Ricketts Road, Mount Waverley, Victoria 3149  
TEL: +61 2 9479 4200, Email: EVCS.Service.AU@deltaww.com

[www.deltaelectronics.com.au](http://www.deltaelectronics.com.au)



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