

### **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









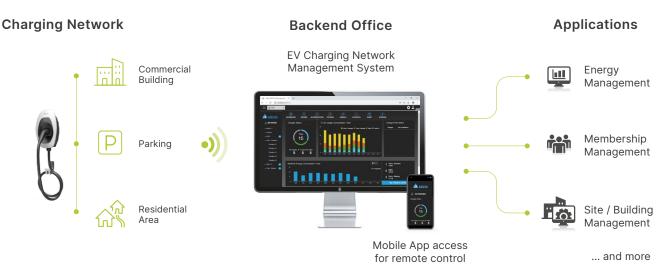
# Compact and Powerful - Liven up Home Charging

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.



### **Application Scenario**



### **Feature Highlights**



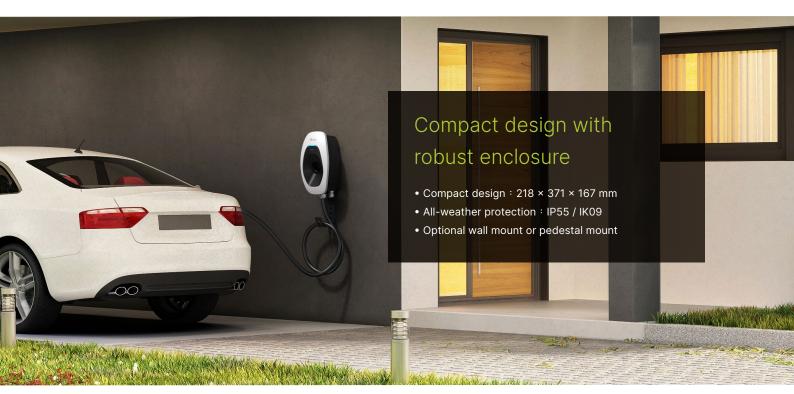
## AC charger to optimize charging activity

- 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



#### **Product at a Glance**



### **Specifications**

Part Number	AC MAX Smart	
Power Input	3.7 kW / 11 kW	7.4 kW / 22 kW
Nominal Current	16 A	32 A
Norminal Current	Single-phase electric power (L1, N, PE)	32 A
Grid Connection	Three-phase electric power (L1, L2, L3, N, PE)	
Ond Connection	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	Circula inhana 2.7 IAM. Three inhana 44 IAM.	Circle phase 7.4 IAM Three phase 00 IAM
Nominal Power  Nominal Current	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 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	

 $<sup>* \ \</sup>mathsf{Product} \ \mathsf{outlook} \ \mathsf{depends} \ \mathsf{on} \ \mathsf{model} \ \mathsf{configuration}. \ \mathsf{Specifications} \ \mathsf{are} \ \mathsf{subject} \ \mathsf{to} \ \mathsf{change} \ \mathsf{without} \ \mathsf{notice}.$ 



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