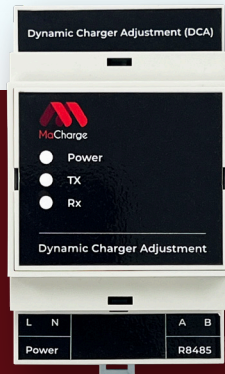




GEMS SERIES AC CHARGER

- 7kW/22kW Output Power
- SmartEZ App
- Dynamic Charger Adjustment (DCA)

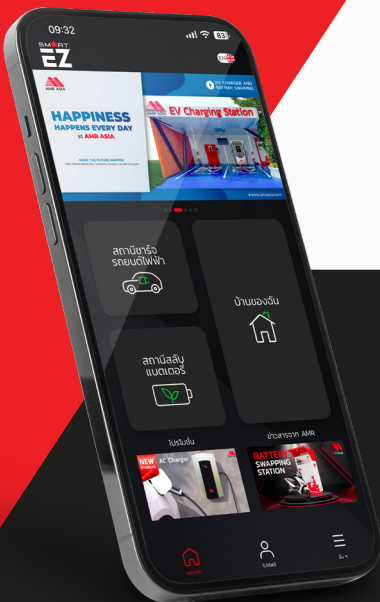


MaCharge Smart AC Charger comes with 2 models; 7kW and 22kW. It can be used according to the suitability of the place. It supports the standard Platform OCPP1.6J and Standard IEC16851-1 and IEC62196 along with a type 2 plug standard in Thailand and Dynamic Charger Adjustment (DCA)

DCA

Black Pearl (7kW)
Black Pearl + (22kW)

Safety standard term is global standard internal residual current detection 30mA AC And 6mA DC and electrical protection is over current, shot circuit, over voltage, under voltage, ground fault, lighting surge and over temperature



Easy To Use

Setup in few steps to get ready

All In One App

You can control the charger in one app, Such as start/stop charging current adjust / schedule time to charge

Calculate Carbon Credit

Know how many CO₂ you save

Smart Ez Other Feature

- Charging history
- Turn on/off LED display
- User management
- Update firmware
- Schedule time
- Adjust charger current
- User MaCharge public charger
- Add & monitoring solar cell

⚡ Dynamic Charger Adjustment (DCA)

Turndown current of AC Charge. When current of building overcurrent to safe electrical not to trip.

📱 Smartez Application

- Energy management
- Membership management
- Schedule charging time

⚙️ Max Performance

- Charging standard type 2 (IEC 62196-2)
- 7kW/22kW max output
- Low standby power

💡 Adaptability

- Compact design
- Easy installation

Specification		
Model	Black Pearl	Black Pearl +
Power Specification		
Voltage	230Vac±10%	400Vac±10%
	Single phase	Three phase
	L/N/PE	L1/L2/L3/N/PE
Power / Amperage	7kW / 32A(Single phase)	22kW / 32A(Three phase)
Frequency	50-60Hz	
Function		
User Authentication	RFID (ISO 14443)	
Network	LAN Standard - Wi-Fi ; 2.4 GHz	
	Ethernet & WAN Standard - 4G cellular (Optional)	
	Bluetooth Standard 5.1 (Optional)	
Connectivity	OCPP 1.6 J (Optional)	
Network Type	TN, TT, IT	
Protection & Standard		
Certificate	CE, UKCA	
Charging Interface	IEC 62196-2 , Type 2 Socket or Plug	
Safety Compliance	IEC 61851-1, IEC 61851-21-2	
RCD	TypeA 30mA+ DC 6mA	
Multiple Protection	UVP, OVP, RCD, SPD, Ground Fault Protection, OCP, OTP, Control Pilot Fault Protection	
Environmental		
Operating Temperature	-30°C ~ 50°C	
Indoor / Outdoor	IK10 & IP64	
Relative Humidity	Up to 95% non-condensing	
Cable Length	5m	

Specification DCA	
Specification	Detail
	Its function is to send real-time electricity current values to the server to control the operation of the charger
LED Display	<ul style="list-style-type: none"> • Power • Rx • Tx
Connectivity	Wi-Fi 802.11b/g/n
Communication	RS-485
Protocol	Modbus-RTU
Voltage	85VAC-305VAC/50Hz
Power	< 1w
Installation	Din Rail Mounting
Dimensions	53.3mm x 90.2mm x 57.5mm
Weight	100 g.
Working Temperature	0-60 °C
Enclosure Material	PC/ABS NYLON