

## STASIUN PENGISIAN KENDARAAN LISTRIK UMUM (SPKLU)



### PT. SYMPHOS ELECTRIC

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**MADE IN INDONESIA**



## EV CHARGING SOLUTION AC Charger / AC Mini Plus



### Features

- Intuitive user interface
- RFID for user authentication
- Multi-communication options for backend integration
- Adjustable operating current adaptive to environment
- Friendly installation

### Specifications

Part Number	EVPE-
<b>Power Input</b>	
Input Rating	230 Vac, single phase, 16 A or 32 A maximum, 50 / 60 HZ
Number of Phase / Wire	L, N and PE (Ground), hardwired with terminal block
Standby Power *	< 6.5 W
Internal RCD	30 mA RCD and DC 6 mA RCD function
<b>Power Output</b>	
Output Rating	230 Vac, single phase, 16 A or 32 A maximum, 50 / 60 HZ 3.68 kW or 7.4 kW maximum
Charging Interface *	(1) IEC 62196-2 Type 1 or Type 2 tethered plug, 5 m cable (2) IEC 62196-2 Type 2 Socket
<b>Protection</b>	
Upstream	In accordance with local regulations
Electrical Protection	Over current, Under voltage, Over voltage, Residual current, Surge protection, Short circuit, Over temperature, Ground fault, Plug-out protection
Cold-Load Pickup	Randomized delay before charge resume after power failure
Automatic recovery After nuisance trip	The EVSE will automatically resume charging after a minor fault such as OVP, UVP, OTP or OCP. No user intervention required.
<b>User Interface &amp; Control</b>	
Status Indicators	Power, Status Charge Fault
Buttons and Switch*	Key switch, On/Off switch, Reset button, Emergency stop button
Charger Configuration	Charging Current Adjustment, Charging Duration Limitation
<b>Communication</b>	
Network Interface	Ethernet (standard), WLAN (option), 3G (option) for backend communication Ethernet (standard) for local access
Charging Protocol	OCPP
<b>Environmental</b>	
Operating Temperature	-30°C to +50°C (-22°F to +122°F)
Storage Temperature	-40°C to +80°C (-40°F to +176°F)
Humidity	<95% relative humidity, non-condensing
Altitude	Up to 2,000 m (6,000 ft.)
<b>Mechanical</b>	
Ingress Protection	IP55
Enclosure Protection	IK08 according to IEC 62262
Cooling	Natural cooling
Dimension (H x W x D) / Weight	363 x 318 x 136 mm (14.3 x 12.6 x 5.4 inch), excluding charging cable. Mounting plate and cable holder, 3.7kg (8.2 lbs), without package
<b>Regulation</b>	
Certificate / Compliance	CE, IEC 61851-1, IEC 61851-2



### Features

- CCS / CHAdeMO dual charging ports
- Max. 94% power efficiency
- RFID card reader for user authentication
- Network connectivity (OCPP 1.5S and 1.6J)
- Ip55 protection and IK08 vandal-proof casing



## EV CHARGING SOLUTION DC Charger / DC Wallbox 25 kW

### Specifications

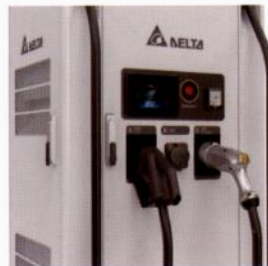
Part Number	EVDE25-
<b>Power Input</b>	
Input Rating	380-415 Vac 50 / 60 Hz, Three-phase L1, L2, L3, N, PE, 50A max 230 Vac, 50 / 60 Hz, Three-phase / L1, L2, L3, PE, 90A max
Grid Type	Support TN, TT and IT power grid.
Power Factor	> 0.98
Current THD	Compliant with IEC 61000-3-12
Efficiency	94% at nominal output power
Stand-by Consumption	< 20 W
<b>Power Output</b>	
DC Output #1	IEC CCS DC Level 2, 50-500 Vdc, 60A max., 25 kW max.
DC Output #2	CHAdeMO, 50-500 Vdc, 60A max., 25 kW max
<b>Protection</b>	
Protection	Over current, Under voltage, Over voltage, Surge protection, Short circuit, Over temperature, Ground fault
<b>User Interface &amp; Control</b>	
Display	2.7" OLED screen
Support Language	English, French, German, Spanish (Other language available upon request)
Push Buttons	Multi-functional buttons (LED light: Orange, Blue) / Emergency stop button (Red)
User Authentication	ISO/IEC 14443 Type A/B RFID for user authentication
<b>Communication</b>	
Connectivity	OCPP 1.5S, 1.6J
Network Interface	Ethernet, Cellular
<b>Environmental</b>	
Operating Temperature	-30°C to +50°C (-22°F to +122°F) Derating from +50°C to +60°C (+122°F to +140°F)
Storage Temperature	-40°C to +85°C (-40°F to +185°F)
Humidity	< 95% relative humidity non-condensing
Altitude	up to 2,000 m (6,500 ft.)
<b>Mechanical</b>	
Ingress Protection	IP55
Enclosure Protection	IK08
Cooling	Forced air
Charging Cable Length	4 m (13 ft.) (standard) / 7 m (23 ft.) (optional for IEC CCS DC)
Dimension (W x H x D) / Weight	880 x 430 x 230 mm (20 x 17 x 9 in.) / 43 kg (95 lb), excluding plug and cable
Type Of Mounting	Wall-mount or optional stand
<b>Regulation</b>	
Certificate	CE
Compliance	CHAdeMO / IEC 61851-1 / IEC 61851-23

Note1: Single output model is available.  
Note2: Specifications are subject to change without notice.

## EV CHARGING SOLUTION DC Charger / DC City Charger

### Features

- 50kW/100kW simultaneous charging
- Dynamic load distribution optimizes charging service
- RFID, credit card and ISO 15118 user identification
- OCPP and network connectivity enables system intrgr
- Modular design ensures high availability
- Ip55 and small footprint provides high adaptability
- 94% power efficiency for energy-saving



### Feature Highlights



**Network Connectivity**  
Bluetooth, Ethernet, Cellular, Wi-Fi

**Efficient Charging Service**

- Simultaneous Charging
- Dynamic Load Distribution
- 94% Power Efficiency
- ISO 15118 Authentication

**Charging Standard**

- CHAdeMO, CCS2
- AC Type 2 socket

**Protection**  
IP 55, IK10

**Pluggable Power Module**



### Complete System Integration

- Network Connectivity
- Backend Compatibility
- Energy Management

**User Authentication**  
Credit card, RFID reader, ISO 15118

### Optimal Operation

- All-Weather Outdoor Design
- Low Lifecycle Cost
- High Availability Service
- OTA Management

### Specifications

Part Number	EVHE 104-	
<b>Power Input</b>	Single Output	Dual Outputs
Input Rating	380-415Vac, 3-Phase, 50 / 60 Hz, L1, L2, L3, N, PE	
Power factor	0.99 at nominal output	
Efficiency	94% at nominal output power	
<b>Power Output</b>		
Output Voltage	50 - 1000 Vdc	
Output interface	DC output options : CCS2, CHAdeMO AC output option : Type 2 Socket	
DC Output Current	200A max.	
DC Output Power	100kW max	
AC Output Current	3-Phase 32A max.	
AC Output Power	22kW max.	
<b>Protection</b>		
Protection	Over current Under Voltage, Over voltage Surge protection, Short circuit, Over temperature, Ground fault	
<b>User Interface &amp; Control</b>		
Display	7 inch LCD Touch Panel	
Support Language	English (Other Languages available upon request)	
Push Buttons	1 Emergency Stop Button	
Charge Options		Simultaneous charging and configurable dynamic load distribution
User Authentication	ISO / IEC 14443 A / B Mifare RFID reader	
<b>Communication</b>		
Network Interface	Ethernet, Cellular, WLAN, Bluetooth	
Protocol	OCPP1.5-S, OCPP1.5-J, upgradable to OCPP2.0	
<b>Environmental</b>		
Operating Temperature	Operating from -30°C to +50°C, Derating from +50°C to +60°C	
Storage Temperature	-40°C to +80°C	
Humidity	< 95% relative humidity, non-condensing	
Altitude	4,000 m	
<b>Mechanical</b>		
Ingress Protection	IP55	
Enclosure Protection	IK10 according to IEC 62262	
Cooling	Forced air	
Charging Cable Length	4 m (standard) : 7.5 m (Optional)	
Dimension (D x H x W) / Weight*	593 x 1503 x 800 mm / 350 kg	
<b>Regulation</b>		
Certificate	CE	
<b>Installation</b>		
Accessory	Basement	

\* Dimension and weight including 4 m charging connectors, subject to variants. Product outlook depends on configuration. Specifications are subject to change without notice.