SWARCO WALL BOX SMART A SUITABLE SOLUTION FOR IMPROVING USER AND OPERATOR EXPERIENCE

APPLICATION

Designed to be installed in both public and private environments including urban spaces, shopping centres, car parks, airports, business premises. communal blocks and private homes. The inbuilt intelligence and communication capabilities offer a range of possibilities, which improve the end user and operator experience.

CONCEPT DESIGN

OCPP compliant, these units can be connected to SWARCO E.Connect (or any OCPP compliant back office) to provide back office services include user access control, billing and reconciliation and load management of charging demand in line with available electrical supply capacity.

Installing a Smart Wall Box network in a car park allows for intelligent energy management of several charging stations simultaneously when there is insufficient power available for all of them.

PRODUCT HIGHLIGHTS

For Charge Point Operator / Owner

- The Embedded Load Management allows for a lower TCO (Total Cost of Ownership) by charging two EVs simultaneously even when the charger is not supplied with its maximum output power.
- · In terms of the charger's housing, ABS plastic has been selected. Its robust structural design provides protection against both mechanical stress and severe environmental conditions, increasing the charger's lifespan and meaning it does not need to replaced after just a few years.
- In terms of **communication**, either through the Ethernet port (by default) or 3G/GPRS modem (optional), the charger can be connected to a backoffice system (by means of OCPP), obtaining benefits such as user management, billing, remote error diagnostics, etc.
- · Ready for Dynamic Load Management network integration. The Wallbox Smart series can be integrated with SCADA software, making simultaneous EV charging easier, faster and cheaper.

For Charge Point User

Clear charging instructions and operating status are shown using a backlit display, increasing user satisfaction, especially useful when the charger has been previously reserved by another user.

Swarcong

The Wallbox Smart series offers a flexible authentication, meaning that the user can authenticate either before or after connecting the cable to the EV. Additionally, the authentication process can also be disabled for a Plug 'n' Charge mode.



WALL BOX SMART **GENERAL SPECIFICATIONS**

Network connection	10/100TX (TCP-IP)		
Interface protocol	OCPP 1.5 or OCPP 1.6J		
Enclosure rating	IP54 / IK10		
Enclosure material	ABS		
Operating temperature	-5 °C to + 45 °C		
Ambient temperature storage	-40 °C to + 60 °C		
Operating humidity	5 % to 95 % Non-condensing		
Light beacon	RGB colour indicator		
Display	Multi-language LCD		
Power limit control	Mode 3 PWM control according to ISO/IEC 61851-1		
Dimensions (D x W x H)	Single: 125x225x320 mm Dual: 125x442x350 mm		
Weight	Single: 4 kg Dual: 6 kg		

RFID Reader	ISO / IEC14443A / B MIFARE Classic/DESFire EV1 ISO 18092 / ECMA-340 NFC 13.56MHz			
Meter	Class 1 - EN50470-3			
Type 2 socket protection	Locking system			
OPTIONAL DEVICES MID meter MID Class 1 - EN50470-3				
Low Temperature Kit	-30 °C to +45 °C			
Cable support	Optional (included at Wallbox with tethered cable)			
Pedestal	Single: for single-plug Wallbox Dual: for dual-plugs Wallbox			
Type 2 charging socket	Shutter			
Compatible with DLM				
Wireless communication	4G / 3G / GPRS / GSM			

MODEL SPECIFICATIONS

MODE	LS	WBC-SMART	WBC32-SMART	WBMC-SMART
AC pov	wer supply	1P + N + PE	1P + N + PE	1P + N + PE
AC voltage		230 VAC +/-10%	230 VAC +/-10%	230 VAC +/-10%
Maximum input current		16 A	32 A	32 A
Maximum input power		3.7 kW	7.4 kW	7.4 kW
Number of plugs		1	1	1
Maximum output power per outlet		3.7 kW	7.4 kW	7.4 kW
Maximum output current per outlet		16 A	32 A	32 A
AC output voltage		230 VAC (1P + N + PE)	230 VAC (1P + N + PE)	230 VAC (1P + N + PE)
Conne	ction	1 x Type 1 Cable (5m) 🛞	1 x Type 1 Cable (5m) 🛞	1 x Type 2 Cable (5m)
MODELS		WBMC-SMART-TRI	WBM-SMART	WBM-SMART-TRI
AC pov	wer supply	3P + N + PE	1P + N + PE	3P + N + PE
AC vol	tage	400 VAC +/-10%	230 VAC +/-10%	400 VAC +/-10%
Maxim	um input current	32 A	32 A	32 A
Maximum input power		22 kW	7.4 kW	22 kW
Number of plugs		1	1	1
Maximum output power per outlet		22 kW	7.4 kW	22 kW
Maximum output current per outlet		32 A	32 A	32 A
AC output voltage		400 VAC (3P + N + PE)	230 VAC (1P + N + PE)	400 VAC (3P + N + PE)
Connection		1 x Type 2 Cable (5m)	1 x Type 2 Socket (lock system)	1 x Type 2 Socket (lock system)
MODE	ELS	WB2M-SMART	WB2M-SMART-TRI	
AC power supply		1P + N + PE	3P + N + PE	
AC voltage		230 VAC +/-10%	400 VAC +/-10%	-
Maximum input current		64 A	64 A	-
Maximum input power		14.7 kW	44 kW	-
Number of plugs		2	2	-
Outlet A	Maximum output power	7.4 kW	22 kW	-
	Maximum output current	32 A	32 A	-
Outlet B	Maximum output power	7.4 kW	22 kW	-
	Maximum output current	32 A	32 A	-
AC output voltage		230 VAC (1P + N + PE)	400 VAC (3P + N + PE)	-
Connection		2 x Type 2 Socket (lock system)	2 x Type 2 Socket (lock system)	-

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