



# The home of charging

Terra DC wallbox. A compact wallbox ev charger for residential, office, commercial, and public assets applications.

> Intelligent design: compact, convenient, connected

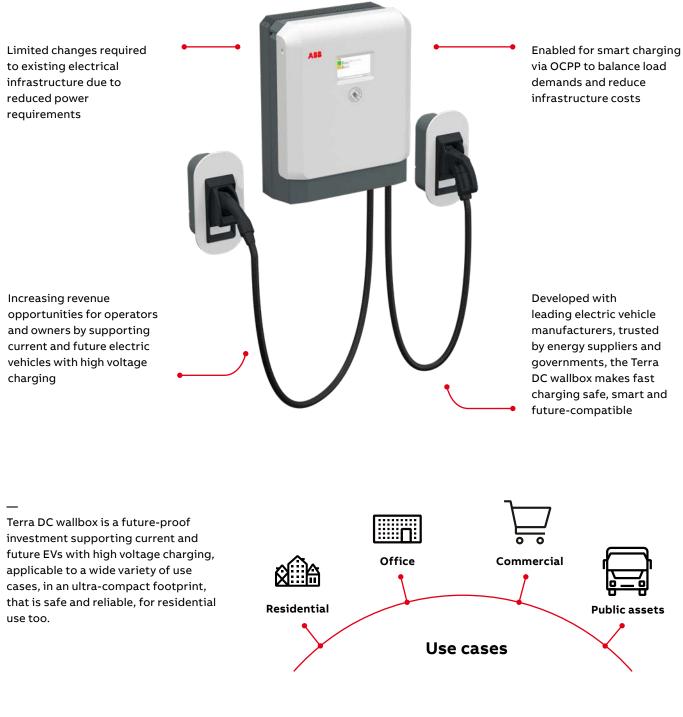
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- Future-proof: ROI maximized
- Safety: built-in protection

At ABB, we have 130 years of heritage in accessible technology leadership and a world-leading AC and DC charging portfolio – for safe, smart and sustainable mobility.

That's why some of the world's biggest brands trust us to provide market-leading e-mobility solutions from highway to home.

## **Terra DC wallbox** The smart e-mobility investment



Residential Multi-tenant homes, residential communities Office Small and large offices, business parks and complexes

#### Commercial

Hotels & hospitality sports institutions, shopping centres, commercial fleets, public or private campus, parking structures, car dealerships, race tracks **Public assets** Bus depots, utility, sensitive grid applications

### Terra DC wallbox benefits

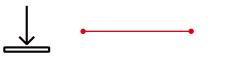
### Intelligent design: compact, convenient, connected



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The DC wallbox with **ultra-compact footprint** enables flexibility in installation to serve a variety of site conditions



Intuitive interface with a **user-friendly 7-inch color touch screen** and easy-reach cables for convenient parking and charging



Broad range of connectivity options including **3G/4G modem**, Ethernet and **GSM for easy control** and integration with existing infrastructure

### Future-proof: ROI maximized



High voltage charging capabilities supporting the EVs from today and into the future



**Enabled for smart charging via OCPP** to balance load demands and reduce infrastructure costs



Connection to ABB Ability platform manages over-the-air-authentication and payment, remote diagnostics, software updates and asset monitoring

### Safety: built-in protection



**Evaluated and tested to the highest standards** by independent, third party safety certification organizations



**Certified with EMC Class B protection** for safe use in residential areas



Integrated ground-fault and trip protection protect both user and car

# Smarter charging

EU portfolio, three phase

#### Description

DC charger for electric vehicles, CCS2 and CHAdeMO Power supply network: 3 phase 400 V AC +/-10 % (50/60 Hz) Connectivity: Cellular connection, 3G / 4G, 2 port RJ45, Ethernet Metal Connector/cable holders for inside use provided standard with the product

	Rated continuous power (kW)	Rated peak power (kW)	Charging standard	EMC classification	Cable length (m / ft)	Туре	Order code	Weight Pkg (1pce) (kg)
	22.5	24	CCS2	Class A	3.5 / 12	TWB CE 24 C 0-7M-A-0	6AGC074509	60
4	22.5	24	CCS2	Class A	7/23	TWB CE 24 C 7-7M-A-0	6AGC076048	60
	22.5	24	CCS2	Class B	3.5 / 12	TWB CE 24 C 0-7M-0-0	6AGC077815	60
	22.5	24	CCS2	Class B	7/23	TWB CE 24 C 7-7M-0-0	6AGC077816	60
	22.5	24	CHAdeMo / CCS2	Class A	3.5 / 12	TWB CE 24 CJ 0-7M-A-0	6AGC003683	60
	22.5	24	CHAdeMo / CCS2	Class A	7/23	TWB CE 24 CJ 7-7M-A-0	6AGC076046	60
	22.5	24	CHAdeMo / CCS2	Class B	3.5 / 12	TWB CE 24 CJ 0-7M-0-0	6AGC077814	60
	22.5	24	CHAdeMo / CCS2	Class B	7 / 23	TWB CE 24 CJ 7-7M-0-0	6AGC077817	60

TWB CE 24 C 7-7M-0-0

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US portfolio, single phase and three phase

#### Description

DC charger for electric vehicles, CCS1 and CHAdeMO Power supply network: 1 phase 200 - 240 V AC +/-10 % (60 Hz), 3 phase 480 V AC +/-10 % (60 Hz) Connectivity: Cellular connection, 3G / 4G, 2 port RJ45, Ethernet Metal Connector/cable holders for inside use provided standard with the product

	Rated DC output power 208 V (kW)	Rated DC output power 240 V (kW)	Charging standard	Cable length (m / ft)	Туре	Order code	Weight Pkg (1pce) (kg)
	Single phase						
	19.5	22.5	CCS1	3.5 / 12	TWB UL 24 C 0-7M-A-0	6AGC077773	60
	19.5	22.5	CCS1	7 / 23	TWB UL 24 C 7-7M-A-0	6AGC077778	60
	19.5	22.5	CHAdeMo / CCS1	3.5 / 23	TWB UL 24 CJ 0-7M-A-0	6AGC003684	60
1	19.5	22.5	CHAdeMo / CCS1	7 / 23	TWB UL 24 CJ 7-7M-A-0	6AGC076047	60

TWB UL 24 C 0-7M-A-0



Rated continuous power (kW)	Rated peak power (kW)	Charging standard	Cable length (m / ft)	Туре	Order code	Weight Pkg (1pce) (kg)
Three phase						
22.5	24	CCS1	3.5 / 12	TWB UL 3PH 24 CJ 0-7M-0-0	6AGC080248	60
22.5	24	CCS1	7 / 23	TWB UL 3PH 24 CJ 7-7M-0-0	6AGC081362	60
22.5	24	CHAdeMo / CCS1	3.5 / 12	TWB UL 3PH 24 C 0-7M-0-0	6AGC081363	60
22.5	24	CHAdeMo / CCS1	7 / 23	TWB UL 3PH 24 C 7-7M-0-0	6AGC081364	60

### Terra DC wallbox accessories

			Weight Pkg (1 pce)
Description	Туре	Order code	(kg)
Pedestal For floor standing installation - Metallic structure (base material aluminium) - Internal conduits available for cabling - Supports up to 2 gun holders on each side - Should be installed with a foundation (not provided) - Dimensions: 1735.50 x 550 x 207.50 mm (H x W x D))		ABB6AGC082120	30
 Connector holder Plastic /cable holders for outside use: to be ordered separately * Metal cable holders for inside use are provided with the product			
CCS-1	TWB Ext.Con.Hol. CCS1	ABB6AGC076604	4.66
CCS-2	TWB Ext.Con.Hol. CCS2	ABB6AGC076603	4.14
CHAdeMO	TWB Ext.Con.Hol. J	ABB6AGC076601	4.24

# **Technical specification**

Under SolutionUtweins 1-phaseUtweins 1-phaseCharging modeNpe4 - CCS 2. CHAdeMOType 4. CCS 1. CHAdeMONumber of outputOptional: dual output CS2Standard: single output CCS1Optional: dual output CHAdeMO + CCS 2Optional: dual output CHAdeMO + CCS 1Number of singling assainSingleSingleOutput cover rating assain		DC Wallbox 24 kW	DC Wallbox 24 kW	DC Wallbox 24 kW
Decompany on the second struct concept     United control to struct concept     Standard strugte output CCS2     Standard strugte output CCS3     Standard Strugte output CCS3 <th></th> <th></th> <th></th> <th></th>				
Number output Optional dual output CS2Standard single output CS1Standard single output CS1Optional dual output CHAdeMO + CS2Optional dual ou	DC output connection		·	·
Optimal dual cutput CMAdeMO + CCS 1 SingleOptimal dual cutput CMAdeMO + CCS 1 SingleOptimal dual cutput CMAdeMO + CCS 1 SingleOutput power rating Comput power rating02.5.5.W, 24.W (peak)19.5.W - 26.W 22.5.W - 24.W (peak)02.5.S.W, 24.W (peak)Output outer a Comput cutre a Comput cut	Charging mode	Type 4: CCS 2, CHAdeMO	Type 4: CCS 1, CHAdeMO	Type 4: CCS 1, CHAdeMO
Number of simultaneous charging essionSingleSingleOutput power rating022.5 kW. 24 kW (peak)25.5 kV. 240 V022.5 kW. 24 kW (peak)Output power rating60.5 DC60.6 DC60.6 DC60.6 DCOutput corrent60.5 DC60.6 DCCCS: 150320 V DCCCS: 150320 V DCChardsmon 150500 V DCCHadsMon 150500 V DCCCS: 150320 V DCCCS: 150320 V DCAtter part and answer and part of signal part of	Number of outputs	Standard: single output CCS2	Standard: single output CCS1	Standard: single output CCS1
charging session     Charge     Charge     Charge       Output power rating     022.5 kW, 24 kW (peak)     195 kW - 200 V     022.5 kW, 24 kW (peak)       Output power rating     022.5 kW, 24 kW (peak)     195 kW - 200 V     022.5 kW, 24 kW (peak)       Output current     022.5 kW, 24 kW (peak)     195 kW - 200 V     022.5 kW, 24 kW (peak)       Output current     022.5 kW, 24 kW (peak)     195 kW - 200 V     022.5 kW, 24 kW (peak)       At input concerned     Extension     201 keg, 11 - NL 1 - L2) + PE     NB       At input concerned     3-phase, 40 A     100 A     3 phase, 40 X AC - /- 10 %       Input tronstage     3-phase, 40 A     100 A     3 phase, 40 X AC - /- 10 %       Input tronstage     3-phase, 40 X AC - /- 10 %     30 /- 60 V AC two wire -/- 10%     3 phase, 40 X AC - /- 10 %       Input tronstage     3-phase, 40 X AC - /- 10 %     30 /- 60 V AC two wire -/- 10%     3 phase, 40 X AC - /- 10 %       Power factor     > 0.96     > 0.96     > 0.96     > 0.96       At input tronstage     30 /-10 X AC + /- 10 %     30 /-10 X AC + /- 10 %       Power factor     > 0.96     > 0.96     > 0.96		Optional: dual output CHAdeMO + CCS 2	Optional: dual output CHAdeMO + CCS 1	Optional: dual output CHAdeMO + CCS 1
Output power rating02.2 s FW. 24 kW (peak)19 s FW : 200 Y 25 kW : 240 Y02.2 s W. 24 kW (peak)Output voltage65.0 DC60 A DC60 A DCOutput voltageCCS : 500920 V DCCCS : 150920 V DCCCS : 150920 V DCCHadeMO : 150500 V DCCHadeMO : 150500 V DC24 2 %At input regression in the second of the second		Single	Single	Single
Unput oursel     22.5 Mr - 20.0 V     60.4 D/C     60.4 D/C       Ourput oursels     CC5.15092.0 V/DC     CC5.15092.0 V/DC     CC4.4640Mr - 15050.0 V/DC     CL4.4640Mr - 15050.0 V/DC       Arrange afficiency at Fulipower     2.9 %     2.92 %     2.92 %     2.92 %       Arrange afficiency at Fulipower     2.92 %     2.92 %     2.92 %     2.92 %       Arrange afficiency at Fulipower     2.92 %     2.92 %     2.92 %     2.92 %       Arrange afficiency at Fulipower     3.92 %     2.92 %     2.92 %     2.92 %       Input oursel and attrange and attrange attr		0 22.5 kW, 24 kW (peak)	19.5 kW - 208 V	0 22.5 kW, 24 kW (peak)
Output voltageCCS. 190920 VDC CHAdeMC: 190900 VDC				
CHAdeMo:150500 VDC     CHAdeMo:150500 VDC     CHAdeMo:150500 VDC       Average difficulty prove     292 %     292 %     292 %     292 %       Actingut connection     200 %     292 %     292 %     292 %       Actingut connection     200 %     91 % N     87 % N     87 % N       Earthing system     3P, N, PE     201 (1 - N, L1 - L2) + PE     3P, N, PE       Input connection     3-phase, 40 A     100 A     20 mas, 40 A       Input contract     3-phase, 40 A C      50 / 60 H     200 %     20 % S       Input contract     50 / 60 H     200 %     20 % S     20 % S       Input contract     50 / 60 H     20 %     20 % S     20 % S       General dictortion (THDI)     <8 %				
AC Input connection     2 wire (e.g. L1 - N, L1 - L2) + PE     3P, N, PE       Earthing system     3P, N, PE     Note that a neutral wire may not be available.     3P, N, PE       input current     3-phase, 40.0     100.A     3 phase, 40.0     3       input frequency     50.72     50.76.0     3     3phase, 40.0     3       input frequency     50.76.72     50.76.0     3     50.76.74     30.76.74       Brows fractor     > 0.36     > 0.36     > 0.36     50.70.74     50.76.74       Breason fractor     > 0.36     > 0.36     > 0.36     50.70.74     50.76.74       Strensoling     770 x 584 x 294 mm     770 x 584 x 294	Output voltage			
Earthing system     3P, N, PE     2 wire (e.g. L1 = N, L1 = L2) + PE     3P, N, PE       Input current     3-phase, 40 A     100 A     3 phase, 40 A       input voltage     3-phase, 40 A     20B     2.40 A C two wire +/ 10%     3 phase, 40 A       input voltage     3-phase, 400 V AC +/ 10 %     20B     50 / 60 Hz     50 / 60 Hz       mout requency     50 Hz     50 / 60 Hz     50 / 60 Hz     50 / 60 Hz       mout requency     50 Hz     30 50 HZ     > 0.96     > 0.96       Marmonic distortion (THDI)     4 8 %     < 4 %	Average efficiency at full power	≥ 92 %	≥ 92 %	≥ 92 %
Note that a neutral wire may not be available.       Input corrent     3 phase, 40 A     100 A     3 phase, 40 A       Input correct     3 phase, 40 V AC 1/- 10 %     20 Phase, 40 V AC 1/- 10 %     50 / 60 Hz       Input protection     External circuit breaker (not included)     External circuit breaker (not included)     External circuit breaker (not included)       Protection     0.96     - 0.96     - 0.96     - 0.96       Protection     8 %     - 8 %     - 8 %       General characteristics     - 0.96     - 0.96     - 0.96       Dimensions     770 x 584 x 294 mm     770 x 584 x 294 mm     - 770 x 584 x 294	AC input connection			
input voringe input voringe power factor3 phase, 40 X AC +/- 10 %3 phase, 40 X AC +/- 10 %input frequency50 Hz50 / 60 Hz50 / 60 Hzinput protectionExternal circuit breaker (not included)External circuit breaker (not included)Power factor> 0.96- 0.96- 0.96Bower factor> 0.96- 0.96- 0.96Brancisson- 70 × 584 × 294 mm- 70 × 584 × 294 mmIP ratingIP S4IP S4IP S4IP ratingIP S4IP S4IP S4Dorating altitude2500 m (8200 ft)- 250 m (8200 ft)Dorating altitude> 3545 °C- 3545 °CDorating altitude> 3545 °C- 3545 °CDorating altitude> 3545 °C- 3545 °CDorating altitude> 0.96IP S4Beregeery Stop Dutton	Earthing system	3P, N, PE		3P, N, PE
input orlingape3-phase 400 VAC +/- 10 %203240 VAC two wire +/- 10%50 phase 480 VAC +/- 10 %input protectionExternal circuit breaker (not included)External circuit breaker (not included)External circuit breaker (not included)Power factor> 0.96> 0.96> 0.96Power factor> 0.96> 0.96> 0.96Brearonic distortion (THO)< 8%	Input current	3-phase, 40 A		3 phase, 40 A
input protection50 Hz50 / 60 Hzinput protectionExternal circuit breaker (not included)External circuit breaker (not included)power factor> 0.96> 0.96> 0.96Barmonic distortion (THD)< 8 %		• •		• •
Input protectionExternal circuit breaker (not Included)External circuit breaker (not Included)Power factor> 0.96> 0.96Power factor> 0.96> 0.96Harmonic distortion (THDI)< 8 %				
Power factor     > 0.96     > 0.96     > 0.96       Harmonic distortion (THD)     < 8 %	,			
Harmonic distortion (THDi) <8 % <8 % <8 % <8 % <8 % <8 % <8 % <8				• •
General characteristics     710 x 584 x 294 mm     710 x 584 x 294 mm     710 x 584 x 294 mm       Dimensions     710 x 584 x 294 ml. 57 inches     30.31 x 22.99 x 11.57 inches     30.31 x 22.99 x 11.57 inches       IP rating     IP54     IP54     IP54       IV rating     IK10 (K08 for HMI)     IK10 (K08 for HMI)     IK10 (K08 for HMI)       NEMA enclosure type     Operating altrude     2500 m (8200 ft)     2500 m (8200 ft)       Operating itmude     2500 m (8200 ft)     2500 m (8200 ft)     2500 m (8200 ft)       Operating itmude     2500 m (8200 ft)     2500 m (8200 ft)     2500 m (8200 ft)       Operating itmude     2500 m (8200 ft)     2500 m (8200 ft)     2500 m (8200 ft)       Operating itmude     Vall of floor using a pedestal     Wall of floor using a pedestal     Wall of floor using a pedestal       Electromagnetic compatibility     IEC 61000-6-3 Class B, suitable for residential IEC 61000-6-3 Class B, suitable for residential     EC 61000-6-3 Class B, suitable for residential       Screen type     7 LCD touchscreen display     7 LCD touchscreen display     1 LCD touchscreen display       Languages     English as standard     Configuration     Configuration       Others innguages				
Dimensions 770 x 564 x 294 mm 770 x 564 x 294 mm 770 x 564 x 294 mm   H x W x D 30.31 x 22.99 x 11.57 inches 30.31 x 22.99 x 11.57 inches 30.31 x 22.99 x 11.57 inches   IP rating IP 54 IP 54 IP 54   IK rating IK 10 (K06 for HMI) IK 10 (K06 for HMI) IK 10 (K06 for HMI)   IK rating IK 10 (K06 for HMI) IK 10 (K06 for HMI) IK 10 (K06 for HMI)   Operating altitude 2500 m (8200 ft) 2500 m (8200 ft) 2500 m (8200 ft)   Operating attemperature range -35 +45 °C -35 +45 °C -35 +45 °C   Mounting Wall or floor using a pedestal Wall or floor using a pedestal Wall or floor using a pedestal   Energency stop button type Push button Push button Push button   Electromagnetic compatibility EC 61000-6-3 Class B, suitable for residential IEC 61000-6-3 Class B	. , ,	. 0 /0	0.00	- 0 /0
H w Y D30.31 x 22.99 x 11.57 inches30.31 x 22.99 x 11.57 inches30.31 x 22.99 x 11.57 inchesIP ratingIP54IP54IP54IK ratingIK10 (K08 for HMI)IK10 (K08 for HMI)IK10 (K08 for HMI)NEMA anclosure typeVEX0 (K08 for HMI)St00 (K08 for HMI)St00 (K08 for HMI)Operating altitude2500 m (8200 ft)2500 m (8200 ft)2500 m (8200 ft)Operating temperature range-35 +45 °C-35 +45 °C-35 +45 °CMountingWall of floor using a pedestalWall or floor using a pedestalWall or floor using a pedestalEmergency stop button typePush buttonPush buttonPush buttonElectromagnetic compatibilityIEC 61000-6-3 Class B, suitable for residentialEC 61000-6-3 Class B, suitable for residentialUser InterfaceIEC 61000-6-3 Class B, suitable for residentialEC 61000-6-3 Class B, suitable for residentialUser InterfaceIEC 61000-6-3 Class B, suitable for residentialEC 61000-6-3 Class B, suitable for residentialUser InterfaceIEC 61000-6-3 Class B, suitable for residentialEC 61000-6-3 Class B, suitable for residentialUser InterfaceIEC 61000-6-3 Class B, suitable for residentialEC 61000-6-3 Class B, suitable for residentialUser InterfaceTLCD touchscreen displayTLCD touchscreen displayTLCD touchscreen displayUser InterfaceContention 36/4CCellular connection 36/4CElefuenceContenticationConfigurationConfigurationConfigurationStand By MillityPLO (SO 14443 A + 8 to part 4 and ISO		770 x 584 x 294 mm	770 x 584 x 294 mm	770 x 584 x 294 mm
KratingIK10 (IK08 for HMI)KI10 (IK08 for HMI)IK10 (IK08 for HMI)NEMA closure typeNEMA 3 outdoorOperating altinude2500 m (8200 ft)2500 m (8200 ft)Operating temperature range-3545 °C-3545 °CMountingWall or floor using a pedestalWall or floor using a pedestalEmergency stop button typePush buttonPush buttonElectromagnetic compatibilityIEC 61000-6-3 Class B, suitable for residentialIEC 61000-6-3 Class B, suitable for residentialElectromagnetic compatibilityIEC 61000-6-3 Class B, suitable for residentialIEC 61000-6-3 Class B, suitable for residentialJaguagesT LCD touchscreen display7 LCD touchscreen displayT LCD touchscreen displayLanguagesT LCD touchscreen displayConfigurationConfigurationStand by IndicatorYesYesYesYesConnectivityCellular connection 36/4GCellular connection 36/4G2 port RJ45 Ethernet2 port RJ45 EthernetUser athericationNFID (S0 14443 + 8 to part 4 and ISO/IECNFID (S0 14443 + 8 to part 4 and ISO/IECNFID (S0 14443 + 8 to part 4 and ISO/IECConfigurationOrber 15, 1.6 / 2.0OCPP 1.5 / 1.6 / 2.0NCPP 1.5, ABB web portalOCP 1.5, ABB web portalConfiguration via ABB AbilityAuthenticationOn-screen PIN code authenticationPayeas, HID, and more)Payass, HID, and more)Payass, HID, and more)Payass, HID, and more)Payass, HID, and more)On-screen PIN code authenticationPayeas, HID, and more)Payass, HID, and more) <t< td=""><td></td><td></td><td></td><td></td></t<>				
KratingIK10 (IK08 for HMI)KI10 (IK08 for HMI)IK10 (IK08 for HMI)NEMA closure typeNEMA 3 outdoorOperating altinude2500 m (8200 ft)2500 m (8200 ft)Operating temperature range-3545 °C-3545 °CMountingWall or floor using a pedestalWall or floor using a pedestalEmergency stop button typePush buttonPush buttonElectromagnetic compatibilityIEC 61000-6-3 Class B, suitable for residentialIEC 61000-6-3 Class B, suitable for residentialElectromagnetic compatibilityIEC 61000-6-3 Class B, suitable for residentialIEC 61000-6-3 Class B, suitable for residentialJaguagesT LCD touchscreen display7 LCD touchscreen displayT LCD touchscreen displayLanguagesT LCD touchscreen displayConfigurationConfigurationStand by IndicatorYesYesYesYesConnectivityCellular connection 36/4GCellular connection 36/4G2 port RJ45 Ethernet2 port RJ45 EthernetUser athericationNFID (S0 14443 + 8 to part 4 and ISO/IECNFID (S0 14443 + 8 to part 4 and ISO/IECNFID (S0 14443 + 8 to part 4 and ISO/IECConfigurationOrber 15, 1.6 / 2.0OCPP 1.5 / 1.6 / 2.0NCPP 1.5, ABB web portalOCP 1.5, ABB web portalConfiguration via ABB AbilityAuthenticationOn-screen PIN code authenticationPayeas, HID, and more)Payass, HID, and more)Payass, HID, and more)Payass, HID, and more)Payass, HID, and more)On-screen PIN code authenticationPayeas, HID, and more)Payass, HID, and more) <t< td=""><td>IP rating</td><td></td><td>IP54</td><td>IP54</td></t<>	IP rating		IP54	IP54
NEMA enclosure type     NEMA 3 outdoor     NEMA 3 outdoor       Operating altitude     2500 m (8200 ft)     2500 m (8200 ft)     2500 m (8200 ft)       Operating temperature range     35 +45 °C     -35 +45 °C     -35 +45 °C       Mounting     Wall or floor using a pedestal       Electromagnetic compatibility     Push button     Push button     Push button       Electromagnetic compatibility     ElC 61000-6-3 Class B, suitable for residentil IEC 61000-6-3 Class B, suitable for residentil IEC 61000-6-3 Class B, suitable for residentility     Electromagnetic Compatibility     Electromagnetic Compatibility     Electromagnetic Colobol-6-3 Class B, suitable for residentility     Electromagnetic Compatibility     Electromagnetic Compatibility     Electromagnetic Colobol-6-3 Class B, suitable via software configuration       Connectivity     English as standard configuration     Configuration     Configuration     Configuration       Communication protocol     OCPP 15/16/2.0     OCPP 15/16/2.0     OCPP 15/16/2.0     OCPP 15/16/2.0       Configuration     On-screen PIN code authentication     On-screen PIN code authentication     Po-screen PIN code authentication     Po	-	IK10 (IK08 for HMI)	IK10 (IK08 for HMI)	IK10 (IK08 for HMI)
Operating altitude     2500 m (8200 ft)     2500 m (8200 ft)     2500 m (8200 ft)       Operating temperature range     -35+45°C     -35+45°C     -35+45°C       Mounting     Wall or floor using a pedestal     Wall or floor using a pedestal     Wall or floor using a pedestal       Emergency stop button type     Push button     Push button     Push button     Push button       Electromagnetic compatibility     IEC 61000-6-3 Class B, suitable for residential     IEC 61000-6-3 Class B, suitable for residential     EC 61000-6-3 Class B, suitable for residential       User Interface     environment     environment     environment     English as standard       Configuration     Colubscreen display     7 LCD touchscreen display     7 LCD touchscreen display       Standby indicator     Yes     Yes     Yes       Connection 36/46     Cellular connection 36/46     Cellular connection 36/46     Cellular connection 36/46       2 port R145 Ethernet     2 port R145 Ethernet     2 port R145 Ethernet     2 port R145 Ethernet       Communication protocol     CCPP 1.5 / 1.6 / 2.0     CCPP 1.5 / 1.6 / 2.0     CCPP 1.5 / 1.6 / 2.0       User athentication     Phis Ast at part 4 and ISO/IEC     TSFGM NFR.NC			NEMA 3 outdoor	NEMA 3 outdoor
Operating temperature range -35 +45 °C -35 +45 °C -35 +45 °C   Mounting Wall or floor using a pedestal Wall or floor using a pedestal Wall or floor using a pedestal   Benergency stop button type Push button Push button   Electromagnetic compatibility IEC 61000-6-3 Class B, suitable for residential IEC 61000-6-3 Class B, suitable for residential   User Interface TLCD touchscreen display TLCD touchscreen display TLCD touchscreen display   Streen type 7 LCD touchscreen display English as standard Others languages available via software configuration   Others languages available via software configuration Configuration Configuration Configuration   Standby indicator Yes Yes Cellular connection 3C/4G 2 port RJ45 Ethernet 2 port RJ45 Ethernet   Communication protocol OCPP 1.5 / 1.6 / 2.0   User athentication RFID (ISO 14443 A + 8 to part 4 and ISO/IEC FID (ISO 14443 A + 8 to part 4 and ISO/IEC FID (ISO 14443 A + 8 to part 4 and ISO/IEC FID (ISO 14443 A + 8 to part 4 and ISO/IEC FID (ISO 1443 A + 8 to part 4 and ISO/IEC FID (ISO 1443 A + 8 to part 4 and ISO/IEC FID (ISO 1443 A + 8 to part 4 and ISO/IEC FID (ISO 1443 A + 8 to part 4 and ISO/IEC FID (ISO 1443 A + 8 to part 4 and ISO/IEC FID (ISO 1443 A + 8 to part 4		2500 m (8200 ft)		
Mounting   Wall or floor using a pedestal   Wall or floor using a pedestal     Emergency stop button type   Push button   Push button   Push button     Electromagnetic compatibility   IEC 61000-63 Class B, suitable for residential   IEC 61000-63 Class B, suitable for residential     User Interface   environment   environment     Screen type   7 LCD touchscreen display   7 LCD touchscreen display     Languages   English as standard   English as standard     Others languages available via software   Configuration   Others languages available via software     Connectivity   Cellular connection 3G/4G   Cellular connection 3G/4G   2 port RJ45 Ethernet     Communication protocol   OCPP 1.5 / 1.6 / 2.0   OCPP 1.5 / 1.6 / 2.0   OCPP 1.5 / 1.6 / 2.0     User athentication   RFID (ISO 14443 A + B to part 4 and ISO/IEC   FISD (ISO 1443 A + B to part 4 and ISO/IEC   FISD (ISO 1443 A + B to part 4 and ISO/IEC     Configuration   Outper schemet   OPP 1.5 / 1.6 / 2.0   OCPP 1.5 / 1.6 / 2.0   OCPP 1.5 / 1.6 / 2.0     User athentication   RTD (ISO 1443 A + B to part 4 and ISO/IEC   FISD (ISO 1443 A + B to part 4 and ISO/IEC   FISD (ISO 1443 A + B to part 4 and ISO/IEC   FISD (ISO 1443 A + B to part 4 and ISO/IEC     Configuration				
Emergency stop button typePush buttonPush buttonPush buttonElectromagnetic compatibilityIEC 61000-6-3 Class B, suitable for residentialIEC 61000-6-3 Class B, suitable for residentialIEC 61000-6-3 Class B, suitable for residentialUser InterfaceenvironmentenvironmentenvironmentScreen type7 LCD touchscreen display7 LCD touchscreen displayTLCD touchscreen displayLanguagesEnglish as standard Others languages available via software configurationEnglish as standard Others languages available via software configurationEnglish as standard Others languages available via software configurationCellular connection 36/4G 2 port RJ45 EthernetCellular connection 36/4G 2 port RJ45 EthernetCellular connection 36/4G 2 port RJ45 EthernetCellular connection 36/4G 2 port RJ45 EthernetCoPP 1.5 / 1.6 / 2.0Communication protocolOCPP 1.5 / 1.6 / 2.0OCPP 1.5 / 1.6 / 2.0OCPP 1.5 / 1.6 / 2.0User athenticationRFID (ISO 14443 A + B to part 4 and ISO/IEC 15693 Mifare, NFC, Calypso, Ultralight, PayPass, HID; and more)FRID (ISO 14443 A + B to part 4 and ISO/IEC 15693 Mifare, NFC, Calypso, Ultralight, PayPass, HID; and more)PayBas, HID; and more)On-screen PIN code authentication Plug & charge (ISO 15118)Plug & charge (ISO 15118)Plug & charge (ISO 15118)OcfP 1.6, ABB web portalOCPP 1.6, ABB web portalOCPP 1.6, ABB web portalConfiguration via local servicesAuthentication Payment Monitoring Remote diagnostic RepairPayBas, IID; and more)Payment Monitoring Remote diagnostic Repair				
Electromagnetic compatibility     IEC 61000-6-3 Class B, suitable for residential     IEC 61000-6-3 Class B, suitable for residential     IEC 61000-6-3 Class B, suitable for residential       War Interface     environment     environment     environment       Screen type     7 LCD touchscreen display     7 LCD touchscreen display     7 LCD touchscreen display       Languages     English as standard Others languages available via software configuration     English as standard Others languages available via software configuration     Configuration       Standby indicator     Yes     Yes     Ves       Connectivity     Cellular connection 3G/4G 2 port R145 Ethernet     2 port R145 Ethernet     2 port R145 Ethernet       Communication protocol     OCPP 1.5 / 1.6 / 2.0     OCPP 1.5 / 1.6 / 2.0     OCPP 1.5 / 1.6 / 2.0       User athentication     RFID (ISO 14443 A + B to part 4 and ISO/IEC 15693 Mifare, NFC, Calypso, Ultralight, PayPass, HID; and more)     RFID (ISO 14443 A + B to part 4 and ISO/IEC 15693 Mifare, NFC, Calypso, Ultralight, PayPass, HID; and more)     PayPass, HID; and more)     PayPass, HID; and more)       On-screen PIN code authentication Plug & charge (ISO 15118)     Plug & charge (ISO 15118)     Plug & charge (ISO 15118)       Configuration     Authentication     Authentication     Authentication				
User Interface     7     CDC touchscreen display     7     CLD touchscreen display     ClD touchscreen display     ClD touchscreen display     Chers languages available via software configuration       Standby indicator     Yes     Comectivity     Cellular connection 3G/4G     Cellular connection 3G/4G     Cellular connection 3G/4G     2 port RJ45 Ethernet     15693 Mifare, NFC, Calypso, Ultralight, PayPass, HID; and more)		IEC 61000-6-3 Class B, suitable for residential	IEC 61000-6-3 Class B, suitable for residential	IEC 61000-6-3 Class B, suitable for residential
Screen type     7 LCD touchscreen display     7 LCD touchscreen display     7 LCD touchscreen display       Languages     English as standard     English as standard     English as standard     English as standard       Others languages available via software configuration     Yes     Yes     Yes       Connectivity     Cellular connection 3G/4G     Cellular connection 3G/4G     Cellular connection 3G/4G       Communication protocol     OCPP 1.5 / 1.6 / 2.0     OCPP 1.5 / 1.6 / 2.0     OCPP 1.5 / 1.6 / 2.0       User athentication     RFID (ISO 14443 A + B to part 4 and ISO/IEC     RFID (ISO 14443 A + B to part 4 and ISO/IEC     RFID (ISO 14443 A + B to part 4 and ISO/IEC       Non-screen PIN code authentication     On-screen PIN code authentication     On-screen PIN code authentication     Or Screen PIN code authentication       Software update     OCPP 1.6, ABB web portal     OCPP 1.6, ABB web portal     OCPP 1.6, ABB web portal       configuration via ABB Ability     Authentication     Authentication     Payment       Payment     Payment     Payment     Payment       Repair     Repair     Repair     Repair       Repair     Repair     Repair     Repair       Repa		environment	environment	environment
LanguagesEnglish as standard Others languages available via software configurationEnglish as standard Others languages available via software configurationEnglish as standard Others languages available via software configurationStandby indicatorYesYesYesYesConnectivityCellular connection 3G/4G 2 port RJ45 EthernetCellular connection 3G/4G 		7 LCD touchscreen display	7 LCD touchscreen display	7 LCD touchscreen display
Standby indicator Yes Yes   Standby indicator Yes Cellular connection 3G/4G Cellular connection 3G/4G Cellular connection 3G/4G   Connectivity Cellular connection 3G/4G 2 port RJ45 Ethernet 2 port RJ45 Ethernet   Communication protocol OCCP 1.5 / 1.6 / 2.0 OCCP 1.5 / 1.6 / 2.0 OCCP 1.5 / 1.6 / 2.0   User athentication RFID (ISO 14443 A + B to part 4 and ISO/IEC 15693 Mifare, NFC, Calypso, Ultralight, PayPass, HID; and more) PayPass, HID; and more)   On-screen PIN code authentication On-screen PIN code authentication On-screen PIN code authentication On-screen PIN code authentication   Plug & charge (ISO 15118)   Configuration Authentication Authentication Authentication   Configuration via ABB Ability Payment Payment Payment   Monitoring Remote control and Authentication Monitoring   Remote control and Please contact your ABB local organization Please contact your ABB local organization   Coffiguration via ABB Ability Please contact your ABB local organization Please contact your ABB local organization   Remote control and configuration via ABB Ability Payment Payment Payment   Configuration via ABB Ability		English as standard Others languages available via software	English as standard Others languages available via software	English as standard Others languages available via software
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User athentication   RFID (ISO 14443 A + B to part 4 and ISO/IEC 15693 Mifare, NFC, Calypso, Ultralight, PayPass, HID; and more)   RFID (ISO 14443 A + B to part 4 and ISO/IEC 15693 Mifare, NFC, Calypso, Ultralight, PayPass, HID; and more)   RFID (ISO 14443 A + B to part 4 and ISO/IEC 15693 Mifare, NFC, Calypso, Ultralight, PayPass, HID; and more)   RFID (ISO 14443 A + B to part 4 and ISO/IEC 15693 Mifare, NFC, Calypso, Ultralight, PayPass, HID; and more)   Seg3 Mifare, NFC, Calypso, Ultralight, PayPass, HID; and more)     On-screen PIN code authentication   On-screen PIN code authentication   On-screen PIN code authentication     Plug & charge (ISO 15118)   Plug & charge (ISO 15118)   Plug & charge (ISO 15118)     Configuration   Authentication   Authentication     Payment   Payment   Payment     Payment   Payment   Payment     Payment   Repair   Repair     Remote control and configuration via ABB Ability   Please contact your ABB local organization   Please contact your ABB local organization     Please control and configuration via local service tool   Please contact your ABB local organization   Please contact your ABB local organization     Codes and standards   EN 61851-1   EN 61851-1   EN 61851-1     EN 61851-2   UL 2002   UL 2002   UL 2002     Certification   CE, EMC Class B   UL,	Communication protocol			•
15693 Mifare, NFC, Calypso, Ultralight, PayPass, HID; and more)15693 Mifare, NFC, Calypso, Ultralight, PayPass, HID; and more)15693 Mifare, NFC, Calypso, Ultralight, PayPass, HID; and more)On-screen PIN code authentication Plug & charge (ISO 15118)On-screen PIN code authentication Plug & charge (ISO 15118)On-screen PIN code authentication Plug & charge (ISO 15118)On-screen PIN code authentication Plug & charge (ISO 15118)ConfigurationSoftware update PaymentOCPP 1.6, ABB web portalOCPP 1.6, ABB web portalOCPP 1.6, ABB web portalSoftware update configuration via ABB Ability connected servicesOCPP 1.6, ABB web portalOCPP 1.6, ABB web portalOCPP 1.6, ABB web portalRemote control and configuration via local service toolAuthentication PaymentAuthentication PaymentPayment PaymentRemote control and configuration via local service toolPlease contact your ABB local organizationPlease contact your ABB local organizationPlease contact your ABB local organizationCoefficientionEN 61851-1 EN 61851-1 EN 61851-2 UL 2202EN 61851-1 EN 61851-2 UL 2202EN 61851-1 EN 61851-2 UL 2202EN 61851-1 EN 61851-2 UL 2202EN 61851-2 UL 2202EN 61851-2 UL 2202CertificationCE, EMC Class BUL, FCC, EMC Class BUL, FCC, EMC Class BUL, FCC, EMC Class B	· ·			
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Configuration     Software update   OCPP 1.6, ABB web portal   OCPP 1.6, ABB web portal     Remote control and configuration via ABB Ability connected services   Authentication   Authentication     Monitoring Remote diagnostic Repair   Monitoring Remote diagnostic Repair   Monitoring Remote diagnostic Repair   Monitoring Remote diagnostic Repair   Please contact your ABB local organization     Please contact your ABB local organization   Please contact your ABB local organization   Please contact your ABB local organization     Codes and standards   EN 61851-1 EN 61851-2 UL 2202   EN 61851-2 UL 2202   EN 61851-2 UL 2202     Certification   CE, EMC Class B   UL, FCC, EMC Class B   UL, FCC, EMC Class B		On-screen PIN code authentication	On-screen PIN code authentication	On-screen PIN code authentication
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configuration via ABB Ability connected servicesPaymentPaymentPaymentMonitoring Remote diagnostic RepairMonitoring Remote diagnostic RepairMonitoring Remote diagnostic RepairMonitoring Remote diagnostic RepairMonitoring Remote diagnostic RepairRemote control and configuration via local servicePlease contact your ABB local organizationPlease contact your ABB local organizationPlease contact your ABB local organizationCoffication and standardsEN 61851-1 EN 61851-2 UL 2202EN 61851-2 UL 2202EN 61851-2 UL 2202EN 61851-2 UL 2202CertificationCE, EMC Class BUL, FCC, EMC Class BUL, FCC, EMC Class B	Remote control and	Authentication	Authentication	Authentication
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Certification and standards     EN 61851-1     EN 61851-1     EN 61851-1       Codes and standards     EN 61851-2     EN 61851-2     EN 61851-2       UL 2202     UL 2202     UL 2202     UL 2202       Certification     CE, EMC Class B     UL, FCC, EMC Class B     UL, FCC, EMC Class B		•	•	Please contact your ABB local organization
Codes and standards     EN 61851-1     EN 61851-1     EN 61851-1       EN 61851-2     EN 61851-2     EN 61851-2     EN 61851-2       UL 2202     UL 2202     UL 2202     UL 2202       Certification     CE, EMC Class B     UL, FCC, EMC Class B     UL, FCC, EMC Class B				
EN 61851-2 UL 2202     EN 61851-2 UL 2202     EN 61851-2 UL 2202     EN 61851-2 UL 2202       Certification     CE, EMC Class B     UL, FCC, EMC Class B     UL, FCC, EMC Class B				
Certification CE, EMC Class B UL, FCC, EMC Class B UL, FCC, EMC Class B	Codes and standards	EN 61851-2	EN 61851-2	EN 61851-2
Warranty extention possible Warranty extention possible Warranty extention possible				



#### For more information please contact:

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