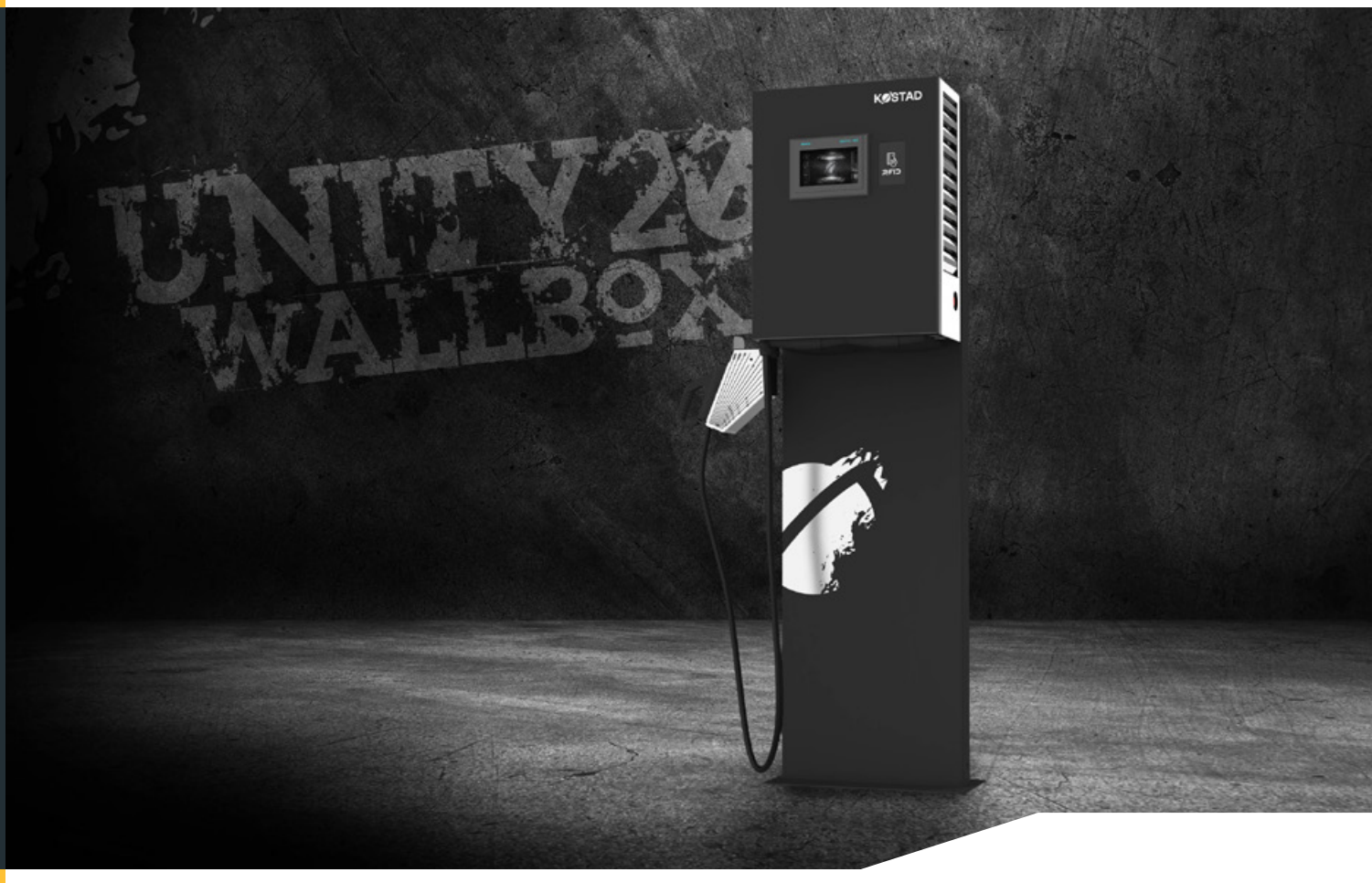
UNITY 20 I wallbox

TECHNICAL DATASHEET

UNITY 20 I wallbox



SWISS KOSTAD

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Product information I User Interface I Configuration I General characteristics I Certification and standards

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Product information	Kostad UNITY 20 Wallbox
Charging type	DC fast charging
Outlet options	CCS, CHAdeMo
Input AC power rating	C, CJ: 32 A, 28 kVA @ 50Hz @ 400V / C, CJ: 45 A, 45 kVA @ 50Hz @ 400V
Input voltage range	400 VAC +/- 10% (47-63HZ) -CE Version
DC output power rating	22,5kW ; 30kW (option)
DC output voltage	200-1000 VDC
Number of EV served	1
Cable length	5m (from cabinet outlet) optional: 6/8 m
CCS cable maximum current	80A
CHAdeMO cables maximum current	80A
Electro-Magnetic Compatibility	Class B (residential) conducted and Class B (residential) radiated emissions according to EN 61000-6-3:2007; EN61581-21-2
Grid connection	3P + PE
Protection	Overcurrent, overvoltage, undervoltage, ground fault including DC leakage protection, integrated surge protection
Overvoltage category	Type II
Powerfactor (fullload)	> 0.97...0.99
THDI	< 5 %
Efficiency	> 95,5 % (peak)
Standby power	70 W
Short circuit current	< 50V / network dependent
Pre-charge current	< 1 A
Energy metering	Optional: MID metering for DC outlets (on AC side incl losses) Optional: Eichrecht/PTB compliant metering solution for DC outlets (on Roadmap)
Cellular communication	GSM / 4G / LTE
User Interface	
Connectivity	Internet access via 4G/3G/Ethernet (RJ45)
User authentication	RFID; ISO 15118 Plug'n'Charge (Roadmap Q4 2021), Credit card terminal (option)
User Interface	7" LCD touchscreen; 7" LCD direct sunlight (option)
Communication protocols	OCPP 1.6J (standard)/2.0 (roadmap Q4/21); ModBus for Loadmanagement
RFID reader	ISO 14443 A + B to part 4 and ISO/IEC 15693, Mifare, NFC
Emergency Button	Yes
Configuration	
Software update	Over-the-air updates vias Kostad Siemens Sinema-Remote Server
Control & configuration	Kostad HMI on the Display Config
Multilanguage system	English, German and more than 15 languages available
General characteristics	
IP an IK rating	IP54 and IK10 (cabinet) / IK8 (touchscreen)
Enclosure type	Stainless steel with anti vandal Power coating
Operational altitude	Up to 2000m
Operating temperature range	-30 °C to + 55 °C
Temperature derating	Up to 50 °C air inlet: 100% output power Above 50 °C air inlet: derating
Storage temperature rates	-40 °C to + 70 °C
Humidity	20-95 % Rh non-condensing
Mounting	Wall mounted
Dimensions (HxWxD)	650 x 500 x 230mm
Mass	65kg
Zertifizierung und Standards	
Charging system	ICE 61851-1 ed 3, ID 61851-21-2, IEC 61851-23 ed 1, IEC 61851-24 ed 1, IEC 62196-2, IEC 62196-3, IEC 61000
Communication to the EC	Din 70121, ISO/IEC 15118 with PnC (HW ready), CHAdeMO 1.2
Communication to the backend	OCPP 1.6 JSON; OCPP2.0JSON (Roadmap Q3 2021)
Safety	Risk assessment
Warranty	Base warranty 24 months; Option up to 60month