SEEDBOX60
V2G

60 KW V2G
DC WALLBOX

- Energy flowing from AC Grid to EV and back from EV to GRID
- Configurable single or dual outlet: CCS combo 150A and/or CHAdeMO 125A
- AC→DC output: constant power up to 60 kW, 150A@400Vdc, 150-1000Vdc
- DC→AC output: 150A@400Vdc DC input current, power up to 60KVA, 90Aac, 260 – 530 Vac 3ph+N, 45-65 Hz
- V2L - Vehicle to Load (OFFGRID mode)
- For wall or pedestal installation
- Low maintenance, low energy consumption
- Easy to install, very easy to use
- Ideal for home/office, retail, business and commercial centres, restaurants, hotels, auto dealers, e-taxis or carpools at large organisations, petrol
- Compact and stylish Italian design
- Customizable for branding

V2G SEEDBOX60 V2G DC wallbox is designed both to supply power to EV's and also to allow electric vehicles to supply power to the public or

domestic power grid, allowing getting benefits from different grid applications: Time shift, Power balancing and Power quality support

In DC to AC mode max power is 60KW, 150A@400Vdc max DC input current from EV CCS or CHAdeMO vehicles with V2G function. **It allows 2x simultaneous charging**

It also allows V2L (Vehicle to Load) function in OFFGRID mode

V2G SEEDBOX60 supports 500 Vdc and 920 Vdc voltage range, adjusting max current in function of the voltage: max 150A at 400V (CCS and CHAdeMO), max 60A at 1000Vdc (CCS only)

V2G SEEDBOX60 has been designed keeping in mind the needs of the owner of the electric vehicle and those of the operator: safety, ease of use and speed in charging operations, low install cost, reliability, low maintenance, low consumption, quick assistance and support. Internet connection and OCPP integration allow users and operators to easily connect and operate with the charger through different back-office software systems, payment platforms or smart grid systems.

V2G SEEDBOX60 can be customized with logos and special stylish colour combinations (see below). It can be equipped with a ped

NEX2

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			V2G SEEDBOX60
AC to DC Mode	**AC Input**	Input voltage & current range	400/480Vac, 3L+PE; 0~ 45A
		Input voltage/frequency range	260 Vac ~ 530 Vac, 45 Hz~ 65 Hz
		Power factor	≥0.99 Full-load output power of @50% ~ 100%
		THD	≤ 5% Full-load output power of @50% ~ 100%
	DC Output	Rated power	60KW
		Voltage and current range	150Vdc ~ 1000Vdc, 0~ 150A@400Vdc CHAdeMO max 500Vdc, max 125A
		Voltage stabilized accuracy	< ±0.5%
		Current stabilized accuracy	≤ ±1% (output power in 20% ~ 100%)
		Efficiency (Max.)	≥ 96%
DC to AC mode	**DC input**	DC input voltage and Output power	From 300 to 1000Vdc, output power is 60kW power is linear derating to 30 kW (CHAdeMO max 500Vdc)
		Max Input current	150A@400Vdc
	AC output	Output AC Voltage and Output power	From 320 to 530Vac, ouput power is 60kW; from 320 to 260Vac , output power is linear derating to 30kW
		Rated power and current	60kVA / 91Aac
		Output AC Frequency	50 Hz/60 Hz
		THD	< 5%
		Output Power Factor	User Setting scale, 0.8 ~ 1, -0.8 ~ -1
		Efficiency (max)	≥ 96%
		OFF GRID — Voltage accuracy and distortion	1% and <3% // Off Grid only supports 400Vac
		OFF GRID — Power factor	> 0.7
		OFF GRID — Dynamic voltage stability and recovery time	5% and 20mS
		OFF GRID — AC voltage and current	380Vac (cannot be adjusted), 3L+N+PE, 33A

Protection and safety	Surge protection, Short circuit output, Overcurrent, Overvoltage, Low-voltage, Earth monitor, Insulation monitor, Overtemperature
Cable types and lengths	1 or 2x CCS Combo 2 150A or 1x CCS 150A + 1x CHAdeMO 125A, 4 mt
Operator's interface	No. 1 LED for status of charging, (optional) TFT LCD colour 4.3" (no touch screen)
Authentication and payment	RFID reader ISO15693+ISO14443A/B, Mifare S50 / S70, Mifare Ultralight, NFC Tag and compatible card (Optional) Anonymous credit card payment terminal
Network connection	Ethernet, 2G, 3G, 4G, EDGE, GPRS, GSM, LTE, UMTS (Optional) Wi-Fi and GPS
Remote access protocol	OCPP 1.6 Json
Operating temperature	-25°C to +50°C, derating when Tamb>45°C (optional: -35°C to 50°C)
Storage temperature	-40°C to +70°C
Rel. humidity	5% to 95% (non-condensing)
Protection degree	IP54 /IK10 (IK8 display)
Enclosure / Environment	Galvanised steel (anti-corrosion treatment and powder coating), for indoor and outdoor Standard colors: white RAL9016, grey RAL7026 only the side panels with louvers, glossy finished
Standards	IEC 15118, DIN70121, IEC 15118.20, CHAdeMO1.0
Safety & EMC	IEC 61851-1, IEC 61851-23, IEC 61851-21-2 class A (optional class B), IEC 62196-3, 2014/35/UE (CE) IEC 61439-2
Dimensions LxDxH / max weight	mm 701 x 404 x 900 / 135 Kg (cable not included)
LED	1 vertical led strip for charging status and lighting
Options	Pedestal, 4.3" LCD TFT monitor, custom 2 colours combination, re-brand (customer logo),CHAdeMO certification,other certifications on request

The characteristics can be modified by the manufacturer without prior notice - October2023

CHAdeMO   OCPP   CE