

Raider 50

50 kW Smart DC Charging Station

Raider 50 is an elegant DC Charging Station. It is built for speed and meets the fast-charging standards of all European, Asian, and North American electric vehicle (EV) manufacturers, while also supporting actual and future generations of EVs that are demanding a higher charge capacity by means of remote updates.

Key Features

- Ultra-wide range of output voltages, 200-500VDC (150-1000VDC optional)
- Robust Pedestal suitable for outdoor use (IP44, IK10)
- CCS2 Combo or CHAdeMO
- 22KW AC Charger with Type 2 Connector (optional)
- Dynamic power management to minimize charging time
- Efficiency > 95% at nominal output power
- Low output DC ripple wave
- Intelligent RFID card reader
- 10" LCD touch screen (optional)
- Standard CAN/RS485 communication interface
- Communications via Ethernet or GPRS/GSM/LTE
- Back-office system integration with OCPP 1.5/1.6/2.0
- Easy to install, operate and service
- Full customization available (colour and logo)

Application Areas

- Public and Private Garages
- Commercial Buildings
- Hotels and Restaurants
- EV Dealerships
- Commercial Fleet Operators
- EV Infrastructure Operators and Service Providers



Technical Specifications

AC Input

Input Voltage	260V to 530V
AC Input Connection	3P + N + PE
Frequency	50 / 60 Hz
Input current (AC-DC) Power Factor	<30A >0.99 (APFC)
Full Load Efficiency	≥95%
Mains terminal	Terminal blocks
Input Protection	OVP, OCP, OPP, OTP, UVP, Residual current detection, Surge protect

DC Output

Output Voltage Range	200-500VDC / 150-1000VDC (depending on the DC Module used)
Max. Output Current (AC-DC) Max. Output Power	0-120A 50KW
Voltage Accuracy	± 1%
Current Accuracy	± 1%
Output Protection	Short circuit protection, OCP, OVP, LVP, OTP & RCM

DC Charge Point: CCS

Rating cable and gun	200 ADC / 850 VDC
Compliance	IEC 61851-23 / -24, IEC 62198-3, DIN 70121

DC Charge Point: CHAdeMO

Rating cable and gun	125 ADC / 500 VDC
Compliance	IEC 61851-23 / -24, JEVS G 105, Rev. 1.0.1

AC Charge Point

AC Socket at 11 kW Nominal	Mode 3 (IEC 62196-2), Type 2
AC voltage Maximum	400V
charging current Protection	3 x 16A for 11KW or 3 x 32A for 22KW RCD Type A + RCM for DC Fault Protection

General

Display	10" LCD touch screen
Emergency Stop Control	Stop button
Cable / access length	3M (CCS or CHAdeMO). Longer cable available on demand
User Authentication	RFID ISO14443A (M1/MIFARE Card)
Display Information External	Charging process and status. Alarm and warning messages
Communication Internal	Ethernet or GPRS/GSM/LTE
Communication Dimensions (H x W x D)	CAN Bus / RS485
Weight	1646mm x 635mm x 147mm
Protection	≈ 85KG with 2 x DC Modules + CCS cable configuration
Back Office Integration	IP44
Compliance and safety	OCPP 1.5/1.6/2.0 using the Open API Integration Kit
Energy Metering	RoHS: EN 50581, CE & IEC 61851-1
Cooling	Supported - Optional
Operating temperature	Forced Air / Fan cooling
Maximum relative humidity	-25 °C to +45 °C
Mounting Support	95 %, non-condensing Requires a preinstalled concrete base or similar. Please contact for support.

Part Numbers

RAIDER50-5L – With LCD Display
 RAIDER50-5LAC – With LCD Display and AC Port

