

EACharger DC Datasheet

A reliable solution for hyper-fast charging in public places, including highways, shopping centers, gas stations, and other high-traffic areas. This rapid and easy-to-set-up DC charging station accommodates the full range of EVs, from the tiniest electric cars to electric buses and heavy-duty vehicles. It is an ideal choice for end-users, fleet operators, city bus and trucking companies, offering seamless integration with any Charge Point Operator network.



General Parameters	
Product Line	EACharger DC G4
Series	Workplace, Public and Special
Execution	Floor mount
Application	Indoor or Outdoor
Charging System	DC Mode 4
Charge Speed	Level 3
EMC (IEC 610000-6-3)	Class B
Communication Protocol	OCPP 1.6J
Number of Channels	Up to 3 channels
Station Rated Power	from 50kW up to 400kW
Connector Types	AC Plug Type 1 / Type 2, CCS1 / CCS2 or CHAdeMO
Noise Level	< 60 dBA
Environment Conditions	
Humidity %	5 95 RH Non-condensing
Operating Altitude	Max. 2000m
Operating Temperature	-35 +55 ℃
Housing	
Vandal-proof	Yes
Protection Level	IP54 / IK10 (Impact energy 20 Joule)
Access to Internal Section	With tools
Material	Steel, polymer coating
Housing Color	Grey-Black by default, customizable for commercial use
Fixation	Standalone with prepared base
Dimensions	up to $950 \times 2210 \times 750$ mm, depending on configuration
Weight	up to 500kg, depening on configuration
Input parameters	
Voltage, V	3 x 400/230VAC ±10%, 3P-5W
Frequency, Hz	50/60 ±5%
Current, I (at Station Rated Power)	160A@100 kW, 240A@150 kW, 320 @200 kW, 480A@300 kW, 640A@400 k
Harmonic Filter	<5% THD
Efficiency	Min. 95% (Load ≥50%)
Power Factor	Min. 0.98 (Load ≥50%)
MTBF	>1 000 000 hours
Idle Power Consumption	Up to 50W
Minimal Input Cable Cross-section	Cu/AI Up to 300 mm2
Output parameters	
Number of Outputs	Up to 3 channels
Channel Output Power	Up to 400kW
Channel Configuration	2xDC and optional AC or DC
Power Distribution	Customizable
AC channel Type1/2	Up to 22kW @32A @(3x400/230VAC±10%)
DC channel CHAdeMO	Up to 50kW @125A @(100500Vdc) full range 01000Vdc

Main Protections	
Overcurrent/Overload Protection	MCB with status signal contacts and manual recovery after shut dow
Earth/Ground/Leakage Protection	IMD ≥10mA at each DC output channel
Overvoltage Protection	SPD Class II (EN 61643-11) with status signal contacts
Overheat Protection	PT1000 sensors, according CCS standard
Welding Protection	AUX signal contact monitoring as part of power contactor
Power Module Protections	
Input Protection Types	Overvoltage, Undervoltage and Overheating protection
Ouput Protections Types	Overvoltage, Short Circuit and Wrong Polaryty protection
Functions By Default	
Display	32-inch sunlight-readable touchscreen
Display Brightness	Auto-adjustment (up to 1500 nits) with a built-in lighting sensor
Energy Metering	Dual-channel Smart DC Meter with shunts for billing
Modem	3G/4G/LTE Modem
Charge Protocol	CAN or PLC 30MHz
Internal Communication Protocol	RS-485 ModBus RTU, CAN Open
External Communication Protocol	RS-485 ModBus RTU, OCPP 1.6/2.0J by LTE/Ethernet
Remote Software Update	wireless LTE or wired LAN
WEB-Interface	wireless LTE or wired LAN
Power Limiting	by external request via OCPP
Service Socket	Schuko AC 230V/16A inside the housing
Cable	5m with Plug CCS2
Manual Cable Management System	Hook in the form of a semicircular bracket
Self Consumption	Standby - up to 50W (Display inactive)
	Ready - up to 400W (Display active)
CCS Plug Holders with Actuators	Automatic locking of the Plug in the Holder
LED Lighting	Static Green LED around plug holders and rear side perimeter
Optional Functions	
Connector Types	AC Type 1 / 2, CCS1/CCS2 or CHAdeMO with Non-standard Cable
Adjustable Auto Heater	To prevent condensation
Backup Supply with Built-in Charger	For proper completion of the charging
Higher IP-rating	Additional protection for seaside locations
Automatic Cable Management	To prevent cable-ground contact and enhance usability
Dynamic Load Management	To protect local electrical grid from overloading
Additional AC Meter at Input	To sum the total kWh across the entire station
RFID/NFC Reader with 10-100 Keys	For user physical authentication
RGB 3-Color Status	Multi-color LED strip around each Plug Holder
Display	Custom menu languages and advertising option
Emergency STOP Button	For manually shutting down a charging station
Payment Terminal POS	For bank card payments
Anti-sand protection	To ensure operability in the desert

Standards

EC 61851-1, IEC 61851-22, IEC61851-23, IEC 61851-24, EN 61643-11, IEC 62196-2, IEC 62196-3, CCS Combo, CHAdeMO, EN62052-11, EN62053-21, EN62053-23, EN61010-1, ISO 15118, DIN SPEC 70121, EN 50160

CE Declaration, Directives 2014/30/EU, 2014/35/EU, 2014/53/EU

 ${\tt UL2202\,Standard\,for\,Safety\,DC\,Charging\,Equipment\,for\,Electric\,Vehicles\,listed}$



















