VESTEL
MOBILITY

Data sheet

DC Sirius
160/240/320/400

More power for quick stops and reliable charging.

DC Sirius Series ultra rapid charging point for electric vehicles enables scalable and retrofittable power levels 160-240-320-400 kW

It has a modern designs, proper full branding and customization, and user-friendly interface.

The modular design increases charger utilization and ease of operation and maintenance.

© Copyright 2024 VESTEL Company. All rights reserved.
Passing on and copying of this document, use and communication of its contents not permitted without written permission from VESTEL.

vestelmobility.com

Highlights

Charging power up to 400kw with liquid cooled cable system for continuous 500 A

Remote load management via OCPP

MID Certified DC meter

Connection to IT backends via OCPP 1.6J

DC charging of two electric vehicles in parallel

Ready for ISO 15118

Online via cellular, Wi-Fi and Ethernet

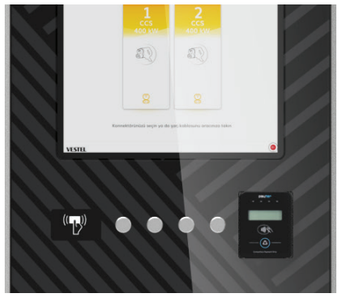
Interaction via 17" touch display

Data sheet | DC Sirius Series

Highlights

Contactless Payment with credit card reader

Beside RFID card, QR code and mobile payment method, optional credit card reader is placed on DC Sirius. This gives the charge point operator more possibilities to install fast charging stations.



Big and clear interface for user interaction via touch screen

User interaction is key. Therefore, the Vestel DC Sirius has seamless 17“ touch screen options. The restrictive touch techno- logy makes it possible to use the screen even in tough weather conditions or with gloves.

Large and easy to use foiling area for your own branding

Your brand should be standing out and visible for everyone. This is why the DC Sirius has a big and easy foiling area on the front for full branding and customization. Optionally you can order the product turnkey ready in your corporate design which includes a complete foiling of the product.

Vandal-proof metal body

Easy Installation & Service

Remote SW update over OCPP

Remote Diagnostics over OCPP

Upgrade Ready

Highlights

General information

Charging mode	DC, mode 4
Number of charging points	1 or 2
Charging connector	CCS2 cable
Cable length	4.5 or 6m
IT backend connection	OCPP 1.6 JSON
Authorization	Free mode, RFID, OCPP remote
Measurement	MID DC Meter (Optional)

Mechanical details

Mounting type	Base mounted
Enclosure material	Metal panel
Cable Management (Optional)	Hydrolic Arm
Dimensions (HxWxD)	2101 x 846 x 982 mm
Package dimensions (HxWxD)	2300 x 1000 x 1090 mm
Weight	650 kg, 780 kg (with packing)

Electrical data

Max Output Power	40 kW Power Module; 160-240-320-400 kW Options (Upgradeable on site)
Input Rating	400 kW: 400 Vac ±10%, 50/60 Hz, 612 A 240 kW : 400 Vac ±10%, 50/60 Hz, 370 A
Output: Voltage	200 - 920 Vdc
Output: Current	Max 500 A (continuous 500A with cooled cable) Max 500 A (nominal 300A with uncooled cable)
Power factor, efficiency	> 0.98, > 95 %
Stand-by power consumption	< 100 W
Earthing system	3L+N+PE (TN, TT)
IEC Protection Class	Class I
Internal Protections	Residual current sensing, Insulation monitoring, Over current, Over voltage, Under voltage, Short circuit, Over temperature, Surge Protection

Data sheet | DC Sirius Series

Highlights

Connectivity

Communication interface to IT backend	Wi-Fi, ethernet, cellular (2G/3G/4G)
Protocols for communication with IT backend	OCPP 1.6 JSON
Authentication methods	RFID, credit card terminal (optional)
User Interface	High brightness resistive touch screen
Display	17” Color TFT LCD (4:3)

Certification

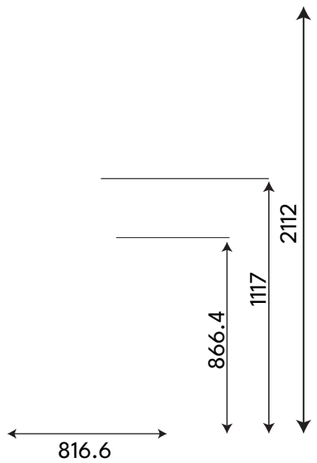
IP protection class	IP 54
Impact resistance	IK 10
Approvals	CE, RoHS, REACH, GPSD, WEEE
Standards	IEC 61000-6-2/3, IEC62196-1/3, IEC 61851-1/23/24 ISO 15118-1/2/3, DIN 70121

Environmental conditions

Environmental operating temperature	-35˚C to + 50 ˚C (Derating is applied over + 40 ˚C) -20˚C to + 50 ˚C (Payment Terminal equipped models)
Humidity	5 % - 95 % (Rel. humidity, non-cond.)
Cooling	Forced air cooling Fan
Areas of use	Internal & External areas
Operating altitude above sea level	0 - 2000 m

Highlights

Technical drawing



Suppplied installation accessories

DC Sirius 160/240/320/400
M20 Steel Expansion Bolt x4
Special Spanner M50 x M40
Flange M12 Bolts x4
1 set (x2) Lock Keys
RJ45 Male Connector

Notes

Notes