

DATASHEET 300kW sepcial

Parameter	Value
General parameters	
Ordering code	See Passport
Series	S(special) with Cable Management and CHAdeMO x CCS2 connectors
Execution	Floor mount
Application	Indoor/Outdoor
Charging system	DC Mode 4
Charge speed	Level 3
EMC (IEC 61000-6-3)	Class B
Number of Channels	2 (Side A CCS2, Side B CHAdeMO)
Station Rated Power, kW	300 kW
Channel Power (at one Side), kW	Up to 300kW – Side A (Rapid CCS2) Up to 50kW – Side B (CHAdeMO)
Noise level	< 60 dBA
Environment conditions	
Humidity, %	5 ... 95 RH Non-condensing
Operating altitude	Max. 2000m
Operating temperature, °C	-35 ... +50 (<0°C - Auto-heater required)
Functions	
RFID	RFID 13.56Hz (ISO/IEC 14443A/B MIFARE Classic/MIFARE DESFire)
Display	Display 32" with CAP touchscreen under glass (ENG menu)
Brightness	1500nit, Autoadjustment by Built-in Lighting Sensor
Backup supply	Built in battery 12V
Energy metering	Smart DC Meter with shunt class 0.2 (at each channel)
Modem	3G/4G/LTE Modem
Charge protocol	PLC 30MHz & CAN
Service socket	Schuko socket EU AC/230V/16A (combined with Lighting)
LED Lighting	Around the Plug Holders
HL Communication protocol	OCPP 1.6J by Raspberry PI Board
LL Communication protocol	RS-485 ModBus RTU, CAN Open
CCS Plug Holders with actuators	Automatic locking of the Plug in the Holder
Main Protections	
Overcurrent/Overload Protection	MCB with status signal contacts, manual recovery after shutdown
Earth/Ground/Leakage fault 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
Housing	
Vandal-proof	Yes
IP Protection degree	IP54
IK Protection degree	IK10 (Impact energy 20 Joule)
Access to internal section	With tools
Material	Steel, polymer coating
Fixation	Standalone with prepared basement
Dimensions, LxHxD, mm	950 x 2209 x 643 mm
Weight, kg	Approximately 420kg The actual weight depends on Power and Functionality (see Passport)
Input parameters	
Voltage, V	3 x 400/230VAC ±10%, 3P-5W
Frequency, Hz	50/60 ±5%
Current, I at Station Rated Power	Up to 480A@300kW
Harmonic filter	<5% THD

Efficiency	Min. 95% (Load \geq 50%)		
Power factor	Min. 0.98 (Load \geq 50%)		
MTBF	>1'000'000 hours		
Input terminal cross-section range	35-240 mm ²		
Min Cable cross-section at Power	Cu (150 mm ²), Al (240 mm ²) at Power 300kW		
Output parameters			
Connector type / Cable Length L, m	Left Side A	CCS2 350A	L= 4,5 m
	Right Side B	CHAdeMO 125A	L= 4,5 m
Channel Power, kW	Left Side A	Up to 300kW (350A at 100...860V)	
	Right Side B	Up to 50kW (125A at 100...400V)	
Cable Management			
A cable holder in the form of a crane for each cable to prevent it from touching the ground			
Standards			
IEC 61851-1, IEC 61851-22, IEC61851-23, IEC 61851-24, EN 61643-11, IEC 62196-2, IEC 62196-3, CCS Combo, 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			
Documentation			
Operation and Maintenance Manual; Passport with Warranty certificate			

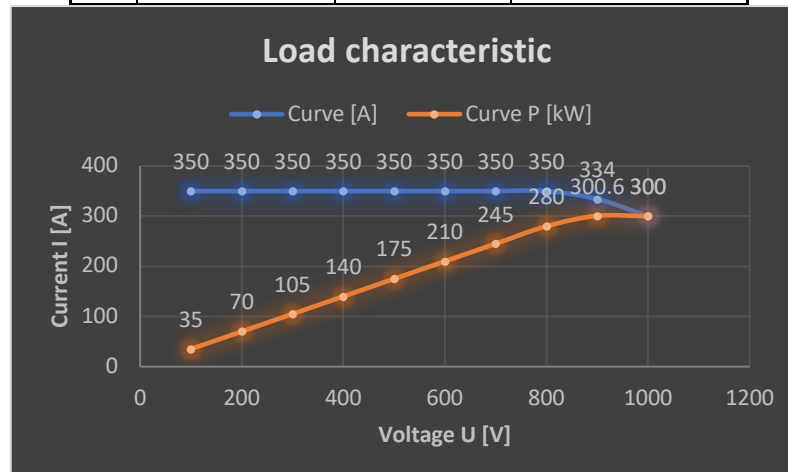
Power distribution between outputs

Left Side A	0	0	250kW	300kW
Right Side B	0	50kW	50kW	0

Side A (Rapid CCS2)

Channel 300 kW with cable CCS2/350A

Nº	Uset [V]	Iact [A]	Pact [kW]
1	100	350	35
2	200	350	70
3	300	350	105
4	400	350	140
5	500	350	175
6	600	350	210
7	700	350	245
8	800	350	280
9	900	334	300.6
10	1000	300	300



Side B CHAdEMO

Channel 50 kW with cable CHAdEMO/125A

Nº	Uset [V]	Iact [A]	Pact [kW]
1	100	125	12.5
2	200	125	25
3	300	125	37.5
4	400	125	50
5	500	100	50

