

Datasheet (IEC)

# HYC1000



## Distributed System

- Up to 1 MW on a single connector
- Simultaneous charging up to 8 vehicles
- Modular, compact design
- 150 V - 1000 V output range
- Over 97.5% max energy efficiency
- 62.5 kW granularity

## Power Cabinet



### Output

Maximum output power	1000 kW
Granularity of output power	62.5 kW
Output DC voltage range	150 Vdc - 1000 Vdc
Maximum DC current per output	600 A
Numbers of DC outputs	8

### Input

AC nominal voltage	400 V (or 480 V) (-10%/+10%)
AC rated input current	1600 A
Frequency	50 Hz (or 60 Hz) (-5%/+5%)
Short Circuit Current Rating	50 kA, 20 ms
Network type	Three-phase +PE, TN-C/TN-S, TT
Overvoltage category	OVC III as per EN/IEC 61140:2016 4.3.2
SPD	Type 1+2
Power Factor	> 0.99 @ full load
THDi	< 5% @ full load

### Standards

Network connections	LTE/4G connectivity, 10/100Base-TX Ethernet
Network communications protocol	Open Charge Point Protocol (OCPP) 1.6 J and 2.0.1

### Operating Conditions

Operating temperature	-30° up to +55°C (with derating above +40°C)
Altitude	up to 2500 m
Storage temperature	-40°C to +55°C
Humidity (in operation, storage)	10% - 95% relative (non-condensing)
Installation	Indoor and outdoor
Type of installation	Floor mounted on foundation or skid
Ingress protection	IP54
Impact protection	IK10 in accordance with IEC 62262

### Dimensions and Weight

H x W x D	2200 x 1567 x 1244 mm
Weight	up to 2000 kg

### Options

Branding	Options for custom colours (powder coating), foil application and stickers
Additional safety features	Crash (tilt) sensor, door contact switch

### Remote Management

Features	Diagnostics, software updates
----------	-------------------------------

## MCS Dispenser

### Output

Charging interfaces	MCS, CCS2
Granularity of output power	62.5 kW
Output DC voltage range	150 Vdc - 1000 Vdc
Maximum DC current	MCS: 1500 A oil cooled CCS2: 600 A oil cooled

### Input

DC current	up to 600 A per DC circuit
DC circuits from Power Cabinet	3
AC supply	Three-phase AC provided by Power Cabinet max 3x16 mm <sup>2</sup>
Communication with Power Cabinet	1x RJ45 Ethernet + 2x InterLock
SPD	Type 1+2
Standby power consumption	< 150 W

### Operating Conditions

Operating temperature	-30° up to +55°C (with derating above +40°C)
Altitude	up to 2500 m
Storage temperature	-40°C to +55°C
Humidity	10% - 95% relative (non-condensing)
Installation	Indoor and outdoor
Type of installation	Floor mounted on foundation or skid
Ingress protection	IP54
Impact protection	IK10 in accordance with IEC 62262

### Dimensions and Weight

H x W x D	2320 x 260 x 780 mm
Weight	350 kg

### User interface

User interface	10.1" touch screen + push buttons
----------------	-----------------------------------

### Remote Management

Remote Management	Diagnostics, software updates
-------------------	-------------------------------

### Options

Branding	Options for custom colours (powder coating), foil application and stickers
Payment system	Card readers for credit cards or EC card, QR-Code-reader
Eichrecht	DC meter available in accordance with the German Calibration Law (Implementation date TBC)
Parameterization of noise levels	Day and night operation
Additional safety features	Crash (tilt) sensor, door contact switch
Multilingual system	GUI in 27 languages

### Standards

Standard protocol	MCS: IEC 61851-23-3, ISO 15118-20 (Implementation date TBC). CCS2: IEC 61851-23, ISO 15118-2, ISO 15118-2, DIN 70121
RFID system	ISO14443A/B, ISO18092



## EV Dispenser

### Output

Charging interfaces	CCS2
Granularity of output power	62.5 kW
Output DC voltage range	150 Vdc - 1000 Vdc
Maximum DC current	CCS2: 600 A oil cooled CCS2: 400 A uncooled

Cable lengths	5 m
---------------	-----

### Input

DC current	up to 600 A per input DC circuit
DC circuits from Power Cabinet	2
AC supply	Three-phase AC provided by Power Cabinet max 3x16 mm <sup>2</sup>
Communication with Power Cabinet	1x RJ45 Ethernet + 2x InterLock
SPD	Type 1+2
Standby power consumption	< 150 W

### Operating Conditions

Operating temperature	-30° up to +55°C (with derating above +40°C)
Altitude	up to 2500 m
Storage temperature	-40°C to +55°C
Humidity	10% - 95% relative (non-condensing)
Installation	Indoor and outdoor
Type of installation	Floor mounted on foundation or skid
Ingress protection	IP54
Impact protection	IK10 in accordance with IEC 62262

### Dimensions and Weight

H x W x D	2320 x 260 x 630 mm
Weight	275 kg

### User interface

User interface	10.1" touch screen + push buttons
----------------	-----------------------------------

### Remote management

Remote Management	Diagnostics, software updates
-------------------	-------------------------------

### Options

Branding	Options for custom colours (powder coating), foil application and stickers
Cable Management System	Integrated
Payment system	Card readers for credit cards or EC card, QR-Code-reader
Eichrecht	DC meters in accordance with the German Calibration Law
Parameterization of noise levels	Day and night operation
Additional safety features	Crash (tilt) sensor, door contact switch
Multilingual system	GUI in 27 languages

### Standards

Standard protocol	IEC 61851-23, ISO 15118-2, ISO 15118-20, DIN 70121
RFID system	ISO 14443A/B, ISO 18092

