

Technical data

KeContact DCU10

DC Power Unit



Design (standard)



Colors (standard)

Housing:	Traffic white (RAL 9016)
Base:	Anthracite grey (RAL 7016)

Customer-specific customization options

Housing:	Primary color and foiling
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Product specifications

Power variants:	240 kW 480 kW ¹⁾ 320 kW 640 kW ¹⁾ from Q3/2025 ¹⁾ Doubling performance with a second DCU10 Power Unit
Integrated energy meter:	No
Connection of an external energy meter:	No
Current monitoring:	Yes
Insulation monitoring:	No

Communication

Local communication protocol:	Modbus TCP
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General

Overvoltage category:	Optional (III)
Protection class:	I
Protection type:	IP44

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Power supply (AC input)

Input voltage:	528 V _{AC} (260-528 V _{AC} /3 P)
Nominal supply voltage:	400 V _{AC}
Nominal current:	360 A
Nominal line frequency:	50 Hz / 60 Hz
Power factor:	0,98
Nominal power:	247 kW
Cable feed:	Bottom side

DC output

Nominal voltage:	1000 V _{DC}
Nominal current peak (max. charging current):	500 A
Nominal power (maximum)	240 kW
Outputs (DC):	2 (dual) or 4 (quadruple)

Ambient conditions

Application:	Inside and outside area
Installation:	Stationary
Humidity (relative):	5% - 95% (non-condensing)
Temperature range (without direct sunlight):	-25 °C to +45 °C (operation, storage, transport)
Altitude:	max. 2.000 m above sea level
Temperature behavior:	Automatic charging current reduction in case of overtemperature

Interfaces

Ethernet interface

Ethernet port:	RJ45
Data transfer rate:	10/100/1000 Mbit/s

Mobile communication [4G/LTE]

Type:	Router with 1 or 2 SIM slots
Supported LTE (4G) bands:	• B1, B3, B5, B7, B8, B20 (LTE-FDD) • B40 (LTE-TDD)
Maximum data rate: (depends on external influences)	LTE Cat 4 up to 150 DL/50 UL Mbit/s
SIM card:	SIM card with 4G authentication Size: Micro-SIM (3FF) Type: Industrial/M2M recommended

Potential-free switch contact input

Type:	Connection for external, potential-free switch contact
Intended use:	Control by the grid operator

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Equipment

Display:	No
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Internal protective functions

Safety line:	Yes
Isometer:	Yes

Material, dimensions and weight

Housing material:	Stainless steel 1.4301 (AISI 304), powder-coated
Height / width / depth:	1.850 mm / 1.250 mm / 430 mm (base area) 1.850 mm / 1.390 mm / 545 mm (including roof overhang)
Packaging dimensions (H / W / D):	2200 mm / 1500 mm / 800 mm
Net weight (without packaging, depending on equipment):	Max. 420 kg
Gross weight (with packaging, depending on equipment):	Max. 520 kg
Installation type:	Floor mounting on concrete or plastic foundation (sold separately)

Standards and certifications

Proven to meet the following guidelines (test reports are available):	• Low Voltage Directive (2014/35/EU) • EMC Directive (2014/30/EU)
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Meets generic standards:

IEC 61851-1:	Yes
IEC 61851-23:	Yes
IEC 61851-21-2:2018:	Yes

Product key

KC-DCU10-ABCD-EFGH / Form designation system

KC-DCU10		... Device series
A	Typ	1 ... Standard
		C ... Client
		M ... Master
B	Charge points	2 ... 2 (dual)
		4 ... 4 (quadruple)
C	Power	2 ... 160 kW
		4 ... 240 kW
D	Power units	1 ... 20 kW
E	Modem	0 ... without
		1 ... 1 SIM total data traffic
		2 ... 2 SIM separate M2M backend operators
F	Load break switch	1 ... Load break switch
		2 ... Load break switch - motor drive
G	Future options	0 ... not equipped

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H Customizing

C ... COL - Color customized
P ... PRE - Predefined special options
S ... STD - No customizing
O ... SON - Special options

Notes

This data sheet lists various options. The actual design depends on the variant.

Downloads

