

Art.Nr. 10014798

DC-GENERATOR JUNCTION BOX | GAK-S-1000-1R-X-Y-PC-1.2_MC4

enwitec electronic GmbH
 Scherrwies 2 | 84329 Wurmansquick
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All values in [mm]

Dimensions

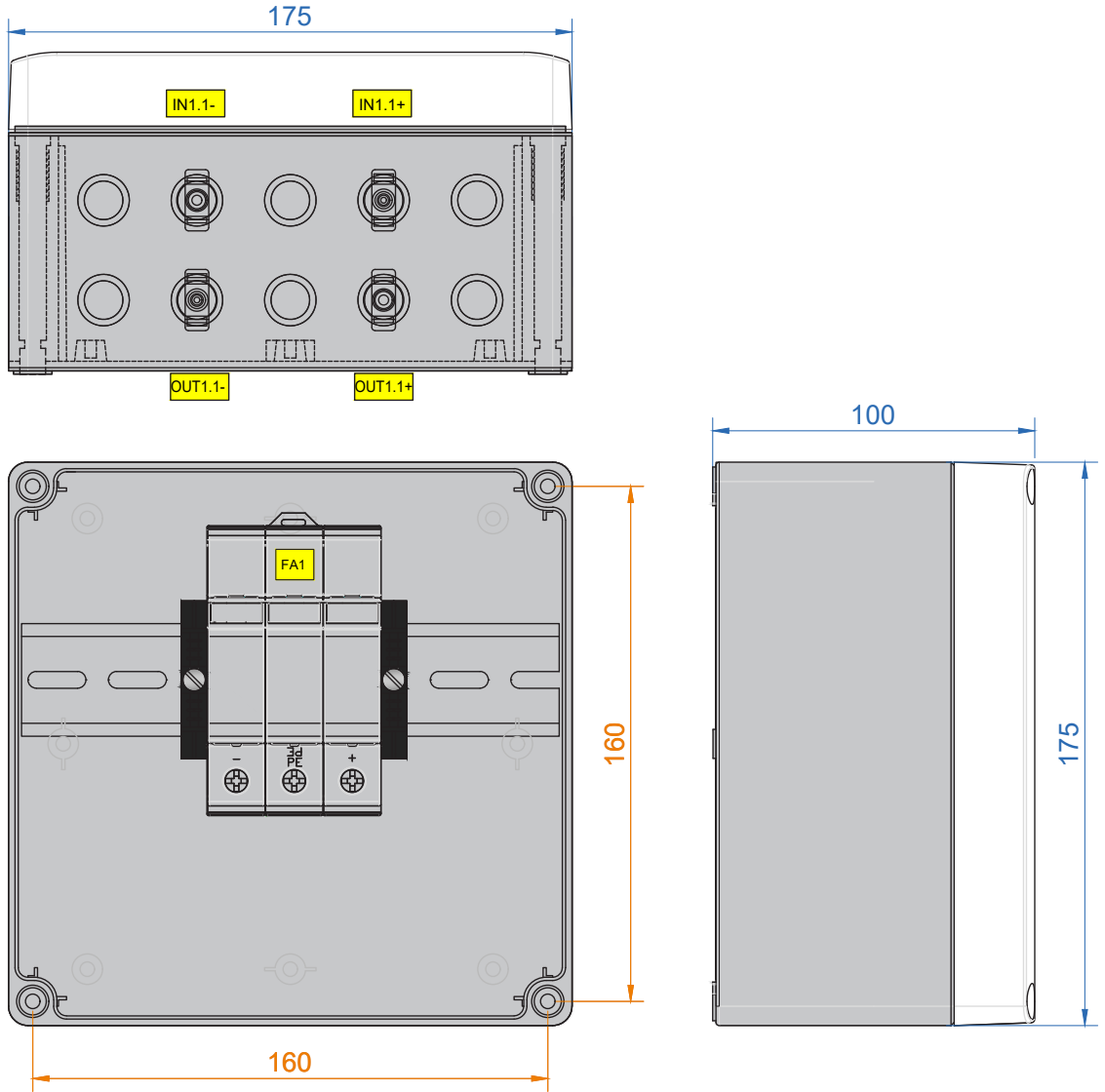
Fastening points

„blue“
 „orange“

Inner construction as well as choice of components may differ within the variants!

Minimum distances

top	200
bottom	200
lateral	100
front	800



SCOPE OF DELIVERY

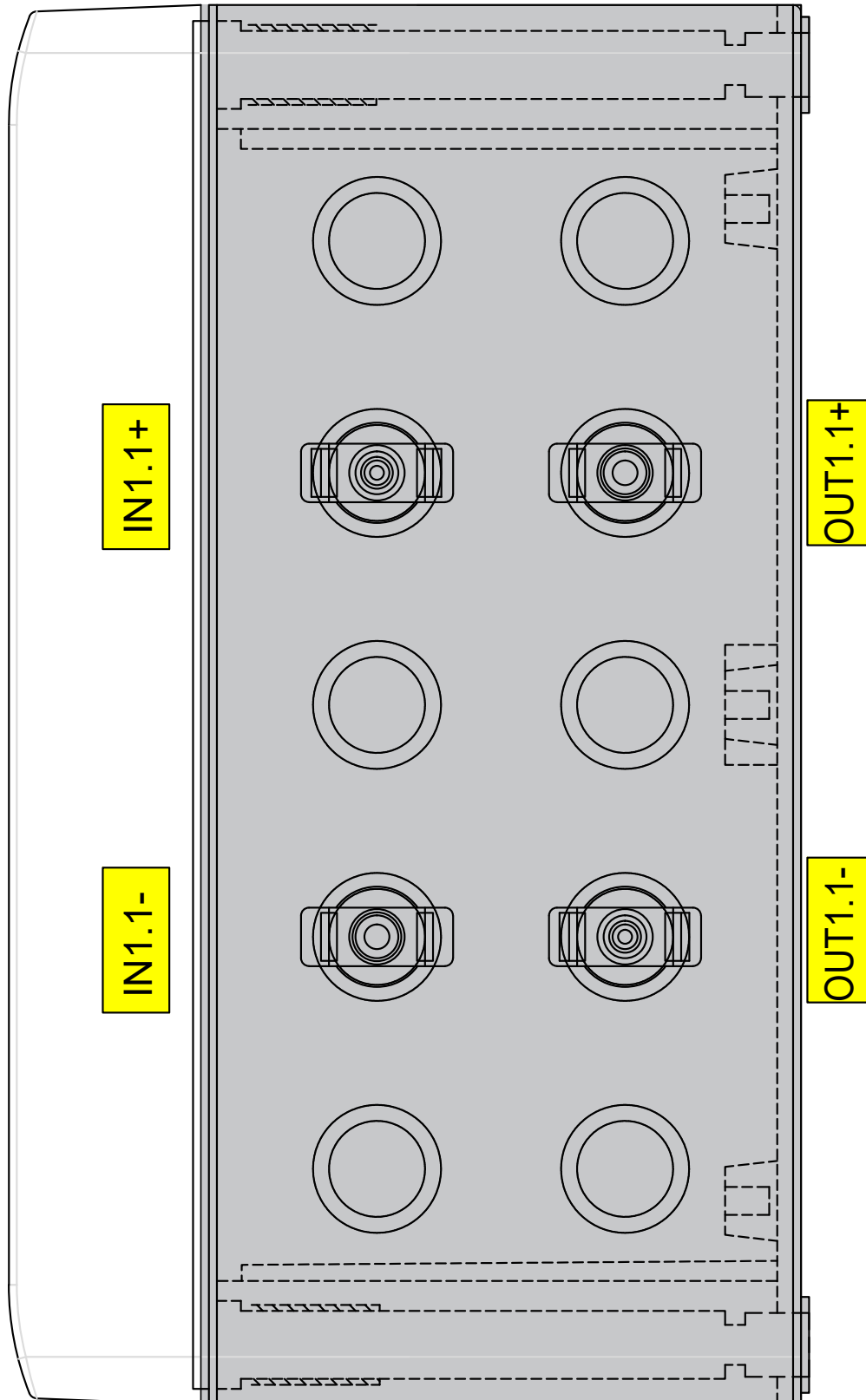
Quantity	Designation	Quantity	Designation
1	Installation instructions standard	1	Pressure equalisation valve M12 incl. Locknut
1	Cable gland M16, incl. Locknut		

Status: July 2023

10014798_datasheet_GAK-S-1000-1R-X-Y-PC-1.2_MC4

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PV CONNECTOR PINOUT



TECHNICAL DATA

• applicable / - not applicable

NOMINAL VALUES (Grid connection)

Rated insulation voltage U_i	[VDC]	1000
Rated operating voltage U_e	[VDC]	1000
Rated current $I_{nA} (= \sum I_{SCSTC})$	[ADC]	32
Dimensioning value* $I_{SCMAX} (= \sum I_{SCSTC} \times 1,25)$	[ADC]	40
Number of isolated MPP inputs		1
Max. number of PV strings IN/OUT		1/1

PER STRING

Rated current $I_{nA} (= \sum I_{SCSTC})$	[ADC]	32
Dimensioning value* $I_{SCMAX} (= I_{SCSTC} \times 1,25)$	[ADC]	40

OVERVOLTAGE PROTECTION

Test category acc. to EN 61643-11 (Typ)		II/C
Max. permissible continuous voltage U_{cpv}	[VDC]	1000
Only type 1: impulse current max. $I_{imp} 10/350$	[kA]	-

INPUT (TO THE PV-GENERATOR)

<u>Cable entry</u>		
PV-plug connection		MC4 PV-ADBP4-S2/6 MC4 PV-ADSP4-S2/6

OUTPUT (TO THE PV-INVERTER)

<u>Cable entry</u>		
PV-plug connection		MC4 PV-ADBP4-S2/6 MC4 PV-ADSP4-S2/6

EARTH CONNECTION

<u>Cable entry</u>		
Cable glands (EN 62444)		M16
Clamping range (from-to)	[Ømm]	5 - 10
<u>Connections</u>		
Connection type		Screw terminal
Stripping length	[mm]	12
Tightening torque	[Nm]	4
<u>Wire cross-section (from-to)</u>		
Cu-fine stranded with wire ferrule	[mm ²]	max. 25
Cu-solid or stranded	[mm ²]	max. 25

* The dimensioning value I_{SCMAX} acc. to VDE 0100-712:2016-10, implies the factor 1.25 for I_{SCSTC} of the PV module, or of the PV string.

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TECHNICAL DATA

GENERAL DATA

Dimensions WxHxD (without cable glands)	[mm]	175 x 175 x 100
Weight, approx.	[kg]	1,7
Operating temperature range	[°C]	-25...+35
Temperature - transport/storageg (24h 70°C)	[°C]	-25...+35
Humidity - condensing allowed	•/-	•
Humidity - permitted range	[%]	5...95
Max. altitude above sea level	[m]	2000
Protection class IP (EN 60529)		65
Outdoor suitability (protected area)	•/-	•
Protection against electric shock (EN 61140)		II
Case material		polycarbonat
RoHS-conformity (2011/65/EU)	•/-	•
Case colour		similar RAL 7035
Cover		transparent
Mounting method		wall mounting
Locking system		screw cover

MISCELLANEOUS

Customs tariff number		85371098
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EC DECLARATION OF CONFORMITY

Das Produkt, designation: **GAK-S-1000-1R-X-Y-PC-1.2_MC4**

article number: **10014798**

manufacturer: **enwitec electronic GmbH
Scherrwies 2
84329 Rogglfing**

description: **Generator junction box**

to which this declaration relates, is in conformity to the following standards or normative documents:

EN 61439-1	Low-voltage switchgear and controlgear assemblies
EN 61439-2	Power switchgear and controlgear assemblies
IEC 60364-7-712	Solar photovoltaic (PV) power supply systems
EN 62305-3 Supplement 5	Lightning and overvoltage protection for PV power supply systems

and is in accordance with the provisions of the following EC-directives:

Low-voltage directive 2014/35/EU
Restriction of Hazardous Substances Directive 2011/65/EU (RoHS)

Year of affixing CE-marking: **2021**

Date of issue: **06.07.2021**

enwitec electronic GmbH



Name / Signature

Johann Wimmer
CEO