

Art.Nr. 10015743

DC-GENERATOR JUNCTION BOX | GAK-S-1000-2R-X-BC-PC-1.1\_MC4

enwitec electronic GmbH  
 Scherrwies 2 | 84329 Wurmanssquick  
 Mail info@enwitec.eu  
[www.enwitec.eu](http://www.enwitec.eu)

All values in [mm]

Dimensions

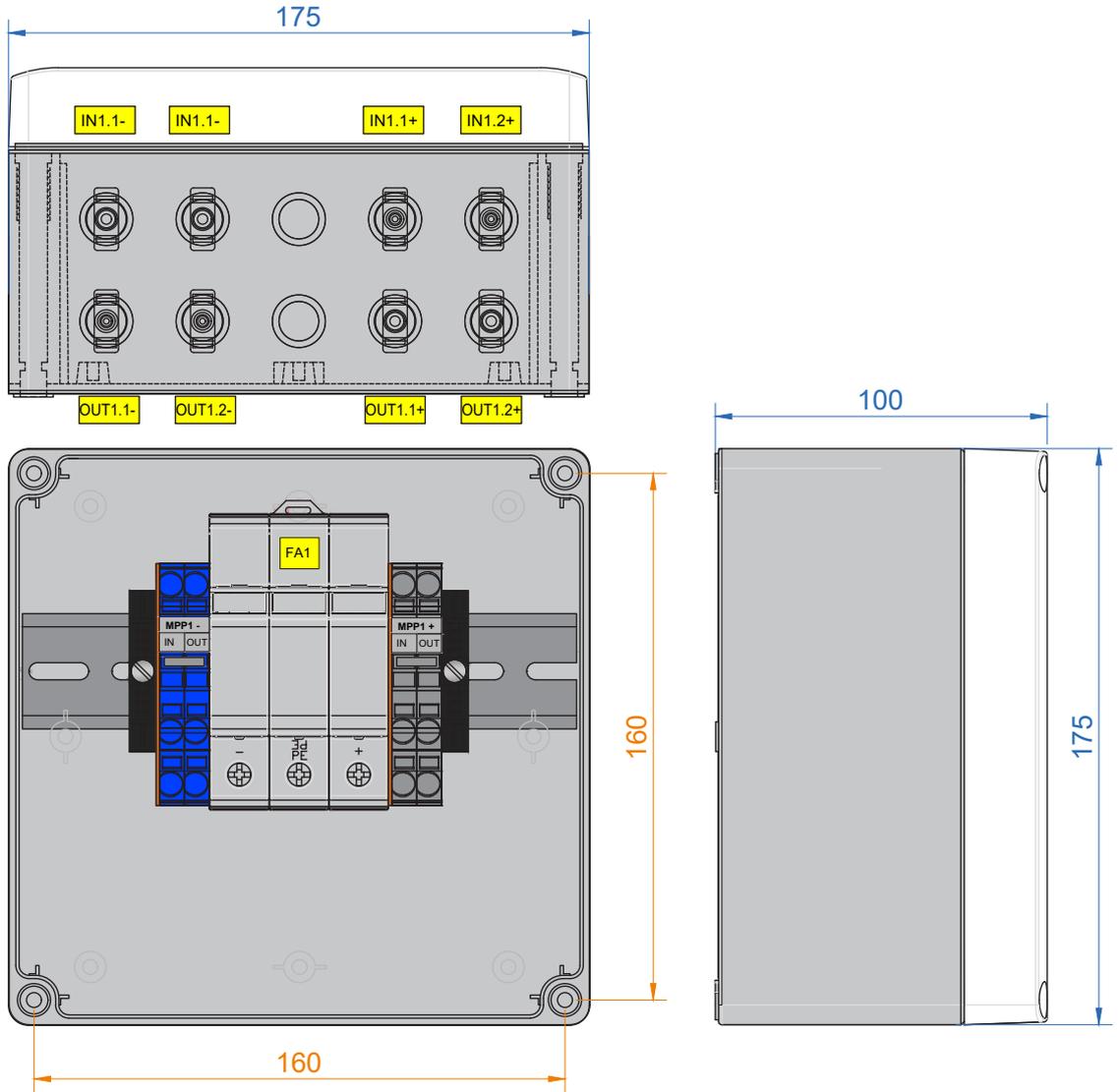
Fastening points

„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	GAK	1	Cable gland M16, incl. Locknut
1	Installation instructions standard	1	Pressure equalisation valve M12 incl. Locknut

Status: July 2023

10015743-GB\_DAT\_GAK-S-1000-2R-X-BC-PC-1.1\_MC4 (a)

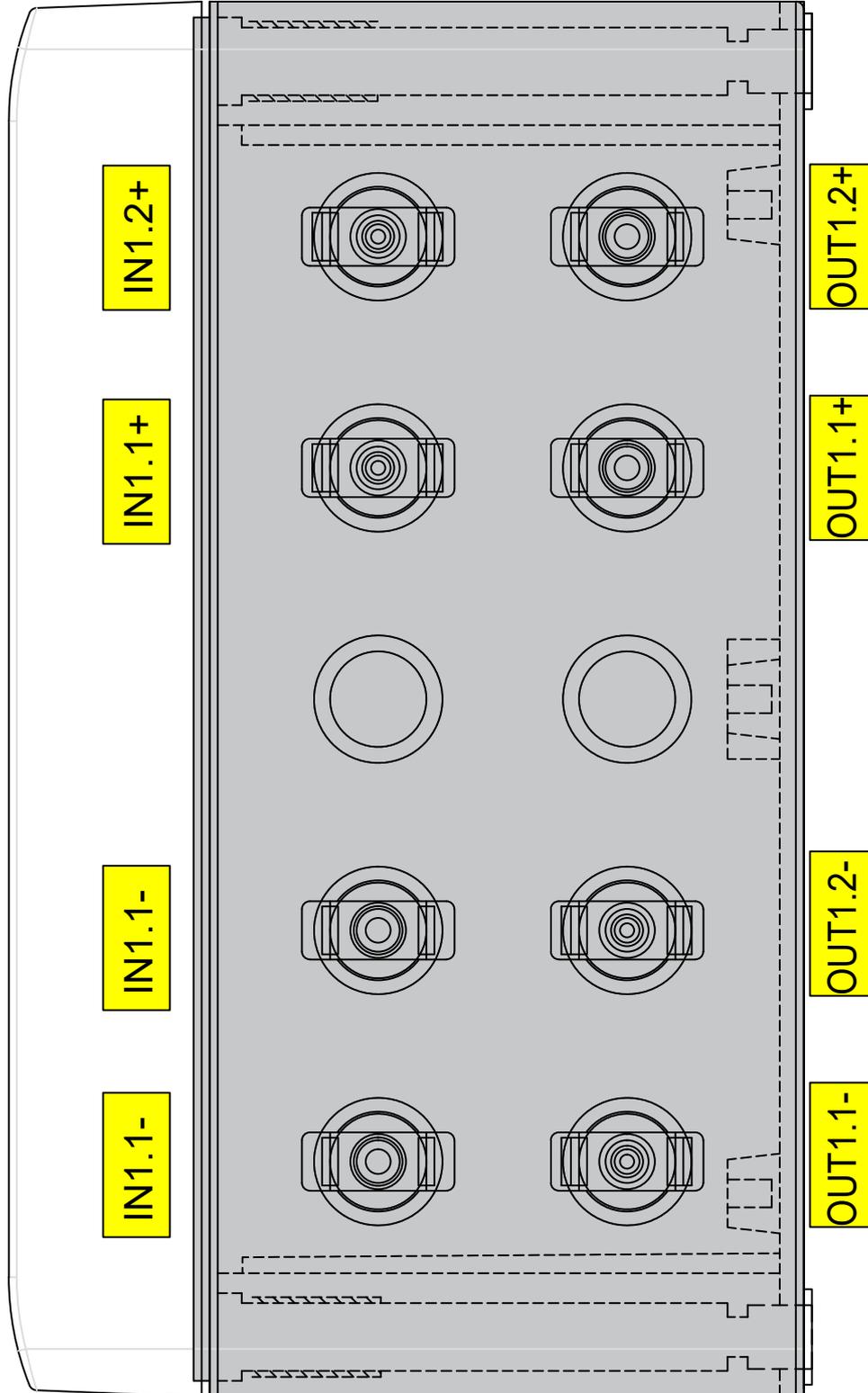
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PV CONNECTOR PINOUT



## TECHNICAL DATA

**NOMINAL VALUES (Grid connection)** • applicable / - not applicable

Rated insulation voltage $U_i$	[VDC]	1000
Rated operating voltage $U_e$	[VDC]	1000
Rated current $I_{nA} (= \sum I_{SC\ STC})$	[ADC]	32
Dimensioning value* $I_{SC\ MAX} (= \sum I_{SC\ STC} \times 1,25)$	[ADC]	40
Number of isolated MPP inputs		1
Max. number of PV strings IN/OUT		2/2
Parallel connected inputs/outputs		-/-

### PER STRING

Rated current $I_{nA} (= \sum I_{SC\ STC})$	[ADC]	16
Dimensioning value* $I_{SC\ MAX} (= I_{SC\ STC} \times 1,25)$	[ADC]	20

### OVERVOLTAGE PROTECTION

Test category acc. to EN 61643-11 (Typ)		I+II
Max. permissible continuous voltage $U_{cpv}$	[VDC]	1000
Only type 1: impulse current max. $I_{imp}$	[kA]	5

### 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 <sup>2</sup> ]	max. 25
*The solid or stranded $I_{SC\ MAX}$ acc. to VDE 0100-712:2016-10, implies the factor	[mm <sup>2</sup> ]	max. 25

1.25 for  $I_{SC\ STC}$  of the PV module, or of the PV string.

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## TECHNICAL DATA

GENERAL DATA		• applicable / - not applicable
Dimensions WxHxD (without cable glands)	[mm]	175 x 175 x 100
Weight, approx.	[kg]	2
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-1000-2R-X-BC-PC-1.1\_MC4**

article number: **10015743**

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: **2020**

Date of issue: **07.12.2020**

enwitec electronic GmbH



Name / Signature

Johann Wimmer  
CEO