

Art.Nr. 10014331

DC-GENERATOR JUNCTION BOX | GAK-S-1000-3R-X-BC-PC-1.0

enwitec electronic GmbH
 Scherrwies 2 | 84329 Wurmanssquick
 Mail info@enwitec.eu
www.enwitec.eu

All values in [mm]

Dimensions

Fastening points

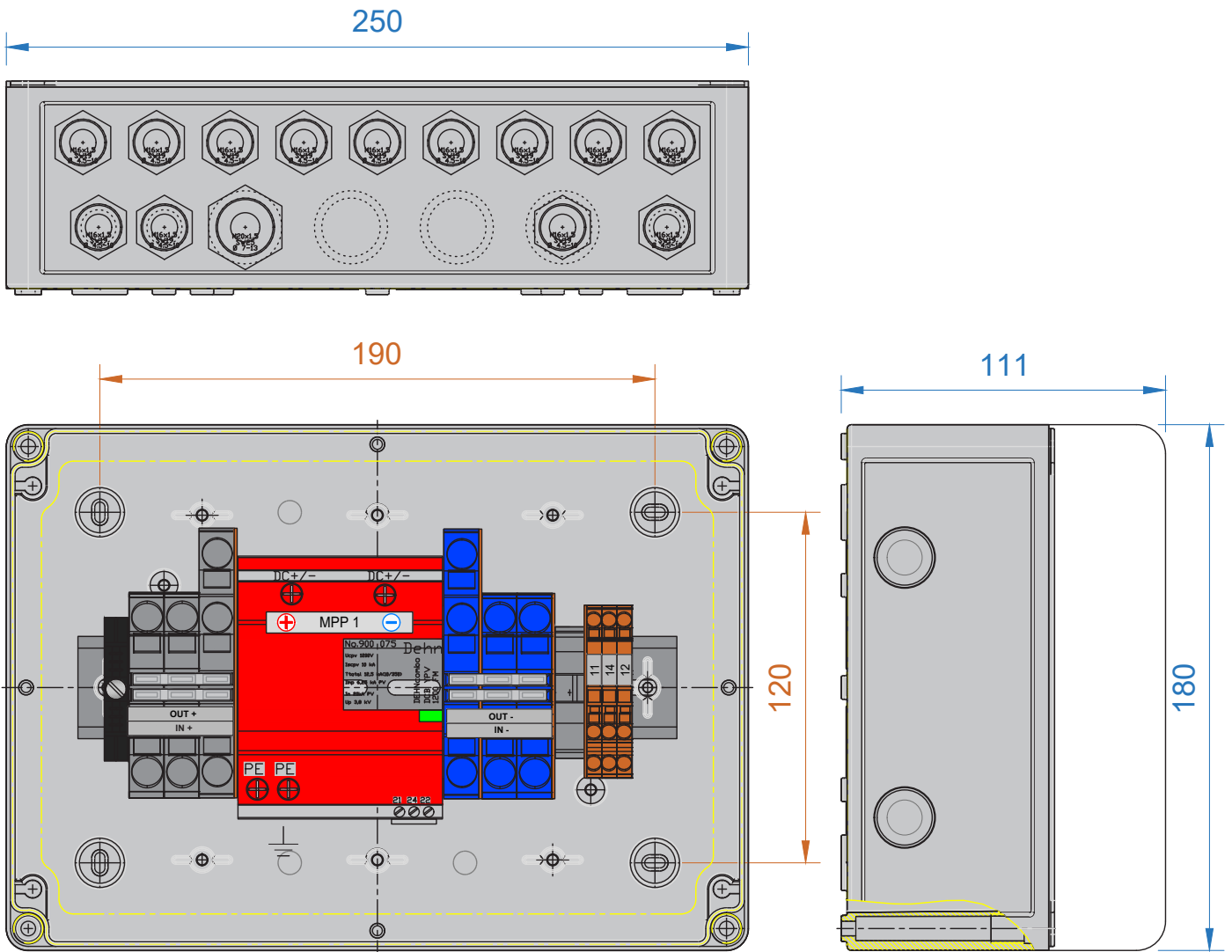
„blue“

„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	Installation instructions standard	13	Cable gland M20 incl. locknut
1	Cable gland M16 incl. Locknut	1	Set cover caps for fastening screws

Status: (a)

10014331-GB_DAT_GAK-S-1000-3R-X-BC-PC-1.0 (a)

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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]	60
Dimensioning value* $I_{SC\ MAX}$ ($= \sum I_{SC\ STC} \times 1,25$)	[ADC]	75
Number of isolated MPP inputs		1
Max. number of PV strings IN/OUT		3/3
Parallel connected inputs/outputs per MPP		-/-

PER STRING

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

OVERVOLTAGE PROTECTION

Test category acc. to EN 61643-11 (Typ)		I+II
Max. permissible continuous voltage U_{cpv}	[VDC]	1200
Only type 1: impulse current max. I_{imp} 10/350	[kA]	6,25

INPUT (TO THE PV-GENERATOR)

<u>Cable entry</u>		
Cable glands (EN 62444)		M16
Clamping range (from-to)	[Ømm]	4,5 - 10
<u>Connections</u>		
Connection type		push-in cage clamp
Stripping length	[mm]	18 - 20
<u>Wire cross-section (from-to)</u>		
Cu-fine stranded with wire ferrule	[mm ²]	0,5 - 16
Cu - fine stranded	[mm ²]	0,5 - 25
Cu - solid	[mm ²]	0,5 - 16

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

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OUTPUT (TO THE PV-INVERTER)

• applicable / - not applicable

<u>Cable entry</u>		
Cable glands (EN 62444)		M16
Clamping range (from-to)	[Ømm]	4,5 - 10
<u>Connections</u>		
Connection type		push-in cage clamp
Stripping length	[mm]	18 - 20
<u>Wire cross-section (from-to)</u>		
Cu-fine stranded with wire ferrule	[mm ²]	0,5 - 16
Cu-fine stranded	[mm ²]	0,5 - 25
Cu-solid or stranded	[mm ²]	0,5 - 16

EARTH CONNECTION

<u>Cable entry</u>		
Cable glands (EN 62444)	[Ømm]	M20
Clamping range (from-to)	[Ømm]	6 - 13
<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	[mm ²]	1,5 - 25
Cu-solid or stranded	[mm ²]	1,5 - 35

COMMUNICATION

<u>Interface</u>		
Type		remote indication contact
<u>Cable entry</u>		
Cable glands (EN 62444)		M16
Clamping range (from-to)	[Ømm]	4,5 - 10
<u>Connections</u>		
Connection type		push-in cage clamp
Stripping length	[mm]	10 - 12
<u>Wire cross-section (from-to)</u>		
Cu-fine stranded with wire ferrule	[mm ²]	0,25 - 2,5
Cu-fine stranded	[mm ²]	0,25 - 4
Cu-solid	[mm ²]	0,25 - 4

Status: (a)

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TECHNICAL DATA

GENERAL DATA

• applicable / - not applicable

Dimensions WxHxD (without cable glands)	[mm]	250 x 180 x 111
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		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-1000-3R-X-BC-PC-1.0**

article number: **10014331**

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: **20 01.2020**

enwitec electronic GmbH



Name / Signature

Johann Wimmer
CEO