

# DATA SHEET

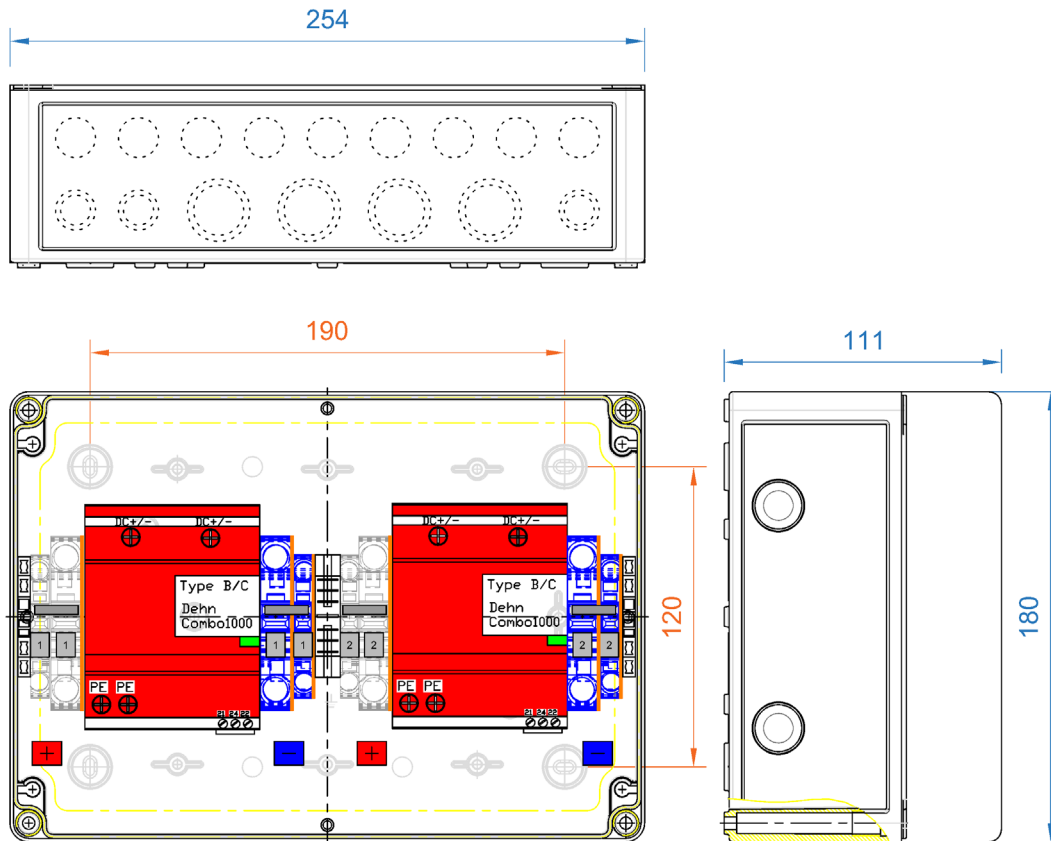
## Generator Junction Box

GAK-S-1000-2x2R-X-BC-PC-1.1

Art.No. 10012735

All values in [mm]  
Dimensions  
Fastening points

„blue“  
„orange“



### Minimum Distances

top	200
bottom	200
lateral	100
front	800

### SCOPE OF DELIVERY

Quantity	Designation
1	Installation instructions standard
1	Cable gland M20 incl. locknut
12	Cable gland M16 incl. locknut

Quantity	Designation
1	Pressure equalisation valve M12 incl. locknut

## TECHNICAL DATA

### NOMINAL VALUES

Rated insulation voltage $U_i$	[VDC]	1000
Rated operating voltage $U_e$	[VDC]	1000
Rated current $I_{nA}$ ( $= \sum I_{SC\_STC}$ )	[ADC]	24
Dimensioning value* $I_{SC\_MAX}$ ( $= \sum I_{SC\_STC} \times 1,25$ )	[ADC]	30
Number of isolated MPP inputs		2
Max. number of PV strings IN/OUT		4/2

### PER STRING

Rated current $I_{nc}$ ( $= I_{SC\_STC}$ )	[ADC]	12
Dimensioning value* $I_{SC\_MAX}$ ( $= \sum I_{SC\_STC} \times 1,25$ )	[ADC]	15

### OVERVOLTAGE PROTECTION

Test category acc. to EN 61643-11 (Type)		I+II / BC
Max. permissible continuous voltage $U_{cpv}$	[VDC]	1000
Only type 1: impulse current max. $I_{imp}$ 10/350	[kA]	6,25 per pole

### EARTH CONNECTION

<u>Cable entry</u>		
Cable glands (EN 50262)		M20
Clamping range (from-to)	[Ømm]	6 - 13
<u>Connections</u>		
Connection type		screw terminal
<u>Wire cross-section (from-to)</u>		
Cu-fine stranded	[mm <sup>2</sup> ]	1,5 - 25
Cu-solid or stranded	[mm <sup>2</sup> ]	1,5 - 35

### INPUT (TO THE PV-GENERATOR)

<u>Cable entry</u>		
Cable glands (EN 50262)		M16
Clamping range (from-to)	[Ømm]	4,5 - 10
<u>Connections</u>		
Connection type		push-in cage clamp
Stripping length	[mm]	13 - 15
<u>Wire cross-section (from-to)</u>		
Cu-fine stranded with wire ferrule	[mm <sup>2</sup> ]	0,5 - 6
Cu-fine stranded	[mm <sup>2</sup> ]	0,5 - 10
Cu-solid or stranded	[mm <sup>2</sup> ]	0,5 - 10

### OUTPUT (TO THE PV-INVERTER)

<u>Cable entry</u>		
Cable glands (EN 50262)		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 <sup>2</sup> ]	0,5 - 16
Cu-fine stranded	[mm <sup>2</sup> ]	0,5 - 25
Cu-solid or stranded	[mm <sup>2</sup> ]	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.

## TECHNICAL DATA

### GENERAL DATA

Dimensions WxHxD (without cable glands)	[mm]	250 x 180 x 111
Weight, approx.	[kg]	2,5
Operating temperature range	[°C]	-25...+35
Temperature - transport/storage	[°C]	-25...+35
Humidity - condensing allowed		yes
Humidity - permitted range	[%]	5...95
Max. altitude above sea level	[m]	2000
Protection class IP (EN 60529)		65
Outdoor suitability (protected area)		ja
Protection against electric shock (EN 61140)		II
Enclosure material		polycarbonat
RoHS-conformity (2011/65/EU)		yes
Enclosure colour		RAL7035
Cover		transparent
Mounting method		wall mounting
Locking system		screw cover

### MISCELLANEOUS

Customs tariff number		85371098
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### EC DECLARATION OF CONFORMITY

The product, designation: **GAK-S-1000-2x2R-X-BC-PC-1.1**

article number: **10012735**

manufacturer: **enwitec electronic GmbH  
Scherrwies 2  
84329 Wurmansquick  
Germany**

description: **Generator Junction Box**

to which this declaration refers is in conformity with the following standards or normative documents:

<b>EN 61439-1</b>	<b>Low-voltage switchgear and controlgear assemblies</b>
<b>EN 61439-2</b>	<b>Power switchgear and controlgear assemblies</b>
<b>IEC 60364-7-712</b>	<b>Requirements for special installations or locations - Solar photovoltaic (PV) power supply systems</b>
<b>EN 62305-3 Supplement 5</b>	<b>Lightning and overvoltage protection for photovoltaic power supply systems</b>

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: **2017**

Date of issue: **04.10.2017**

enwitec electronic GmbH



*Name / Signature*

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