

Art.Nr. 10014960

DC-GENERATOR JUNCTION BOX | GAK-enwitec-S-1000-6x2R-X-BC-PC-1.0

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

All values in [mm]

Dimensions

Fastening points

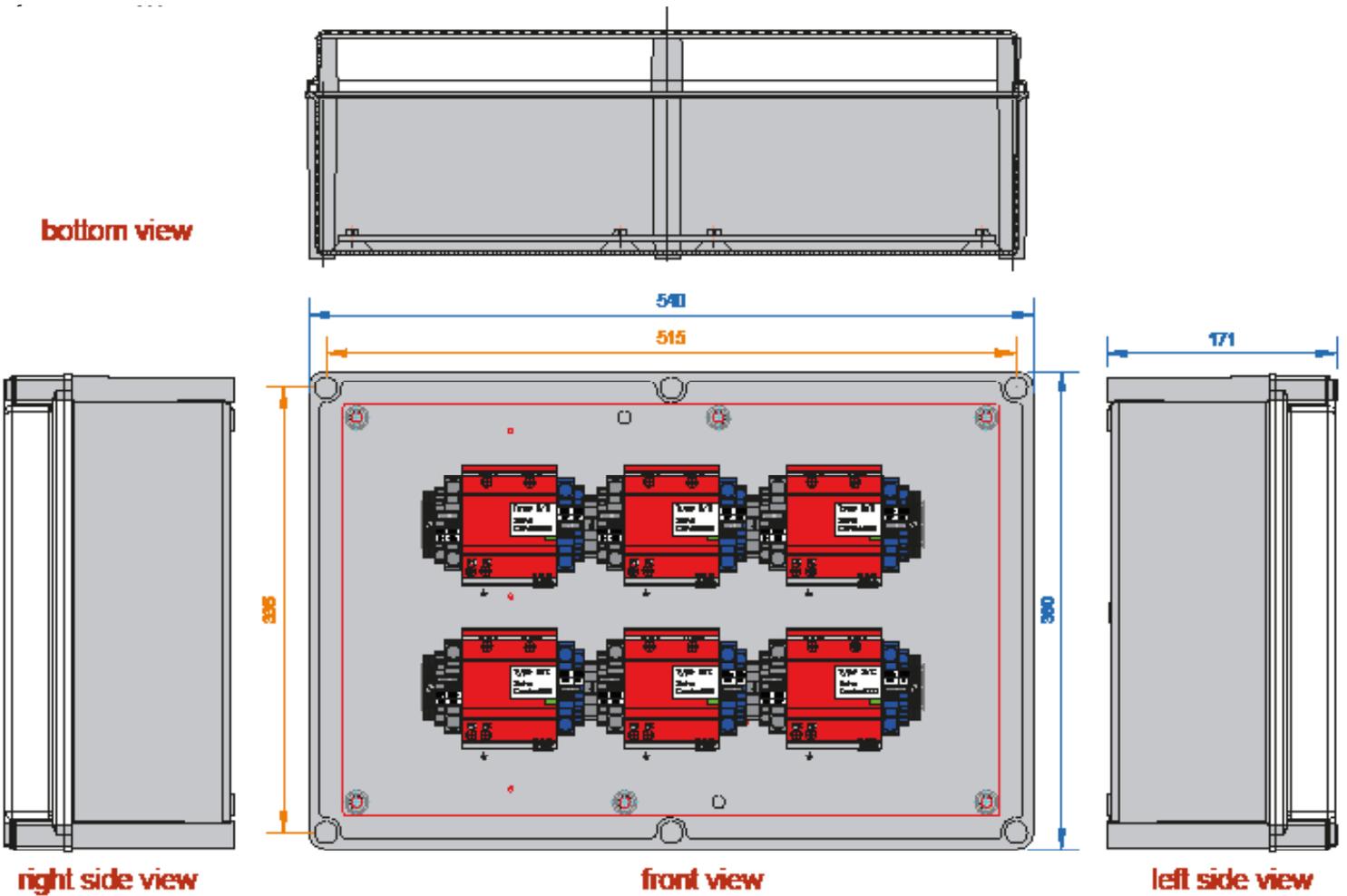
„blue“

„orange“

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

Minimum distances

top	200
bottom	200
lateral	100
-	---



SCOPE OF DELIVERY

Quantity	Designation	Quantity	Designation
1	Installation instructions standard	13	Cable gland M20 incl. locknut
4	Cover cap for wall mounting	12	Multiple seal MFD 20
12	Cable gland M16 incl. locknut	1	Pressure compensation element M12 incl. locknut

Status: (a)

10014960-GB_DAT_GAK-enwitec-S-1000-6x2R-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]	96
Dimensioning value* $I_{SC\ MAX}$ ($= \sum I_{SC\ STC} \times 1,25$)	[ADC]	120
Number of isolated MPP inputs		6
Max. number of PV strings IN/OUT		12/6
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} 10/350	[kA]	5

INPUT (TO THE PV-GENERATOR)

<u>Cable entry</u>		
Cable glands (EN 62444)		cable glands M20 + multiple seal
Clamping range (from-to)	[Ømm]	12 x 5 - 6,5
<u>Connections</u>		
Connection type		spring clamp
Stripping length	[mm]	13 - 15
Tightening torque	[Nm]	-
<u>Wire cross-section (from-to)</u>		
Cu-fine stranded with wire ferrule	[mm ²]	from 1,5
Cu - fine stranded	[mm ²]	0,5 - 10
Cu - solid	[mm ²]	1 - 10

* 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		spring clamp
Stripping length	[mm]	18 - 20
Tightening torque	[Nm]	-
<u>Wire cross-section (from-to)</u>		
Cu-fine stranded with wire ferrule	[mm ²]	from 2,5
Cu-fine stranded	[mm ²]	0,5 - 25
Cu-solid	[mm ²]	0,5 - 16

EARTH CONNECTION

<u>Cable entry</u>		
Cable glands (EN 62444)	[Ømm]	M20
Clamping range (from-to)	[Ømm]	7 - 13
<u>Connections</u>		
Connection type		spring clamp
Stripping length	[mm]	19
Tightening torque	[Nm]	-
<u>Wire cross-section (from-to)</u>		
Cu-fine stranded with wire ferrule	[mm ²]	max. 25
Cu-fine stranded	[mm ²]	-
Cu-solid or stranded	[mm ²]	max. 25

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TECHNICAL DATA

GENERAL DATA

• applicable / - not applicable

Dimensions WxHxD (without cable glands)	[mm]	540 x 360 x 171
Weight, approx.	[kg]	14
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-enwitec-S-1000-6x2R-X-BC-PC-1.0**

article number: **10014960**

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: **27.04.2020**

enwitec electronic GmbH



Name / Signature

Johann Wimmer
CEO