

Art.Nr. 10013312
 DC-GENERATOR JUNCTION BOX | GAK-enwitec-S-1000-2x3S(x2)xx-X-BC-PC-1.0

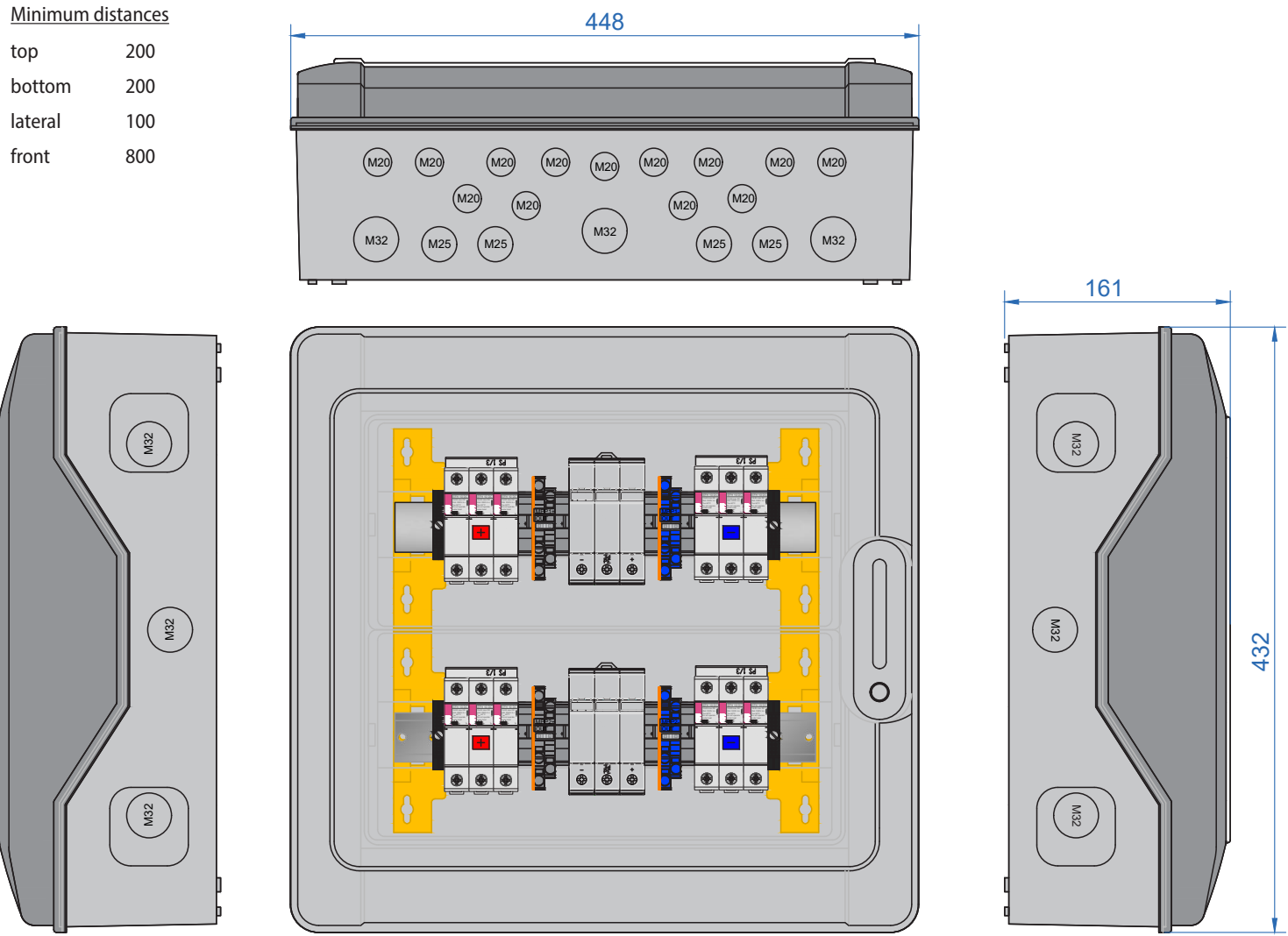
enwitec electronic GmbH
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All values in [mm]
 Dimensions
 Fastening points

„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	4	Multiple seal M20
5	Cable gland M20 incl. locknut	2	Multiple seal M32
4	Cable gland M25 incl. locknut and multiple seal	4	Blanking plug for multiple seal M25
2	Cable gland M32 incl. locknut	4	Cover cap for wall mounting
1	Reduction M20/M12	1	Pressure compensation element M12 incl. locknut

Status: (a)
 10013312-GB_DAT_GAK-enwitec-S-1000-2x3S(x2)xx-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]	72
Dimensioning value* $I_{SC\ MAX} (= \sum I_{SC\ STC} \times 1,25)$	[ADC]	90
Number of isolated MPP inputs		2
Max. number of PV strings IN/OUT		6/6
Parallel connected inputs/outputs per MPP		3/3

PER STRING

Rated current $I_{nA} (= \sum I_{SC\ STC})$	[ADC]	12
Dimensioning value* $I_{SC\ MAX} (= \sum I_{SC\ STC} \times 1,25)$	[ADC]	15
string fuse in the „+“ potential	•/-	•
string fuse in the „-“ potential	•/-	•
fuse is inserted at factory setting	•/-	-
rated current value at factory setting	[A]	-

OVERVOLTAGE PROTECTION

Test category acc. to EN 61643-11 (Typ)		I+II/BC
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)

Cable entry		
Cable glands (EN 62444)		cable glands + multiple seal
Clamping range (from-to)	[Ømm]	12 x 5 - 7
Connections		
Connection type		screw terminal
Stripping length	[mm]	12
Tightening torque	[Nm]	2
Wire cross-section (from-to)		
Cu-fine stranded with wire ferrule	[mm ²]	1 - 16
Cu - fine stranded	[mm ²]	-
Cu - solid	[mm ²]	1 - 25

* 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.

Status: (a)

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OUTPUT (TO THE PV-INVERTER)

• applicable / - not applicable

<u>Cable entry</u>		
Cable glands (EN 62444)		cable glands + multiple seal
Clamping range (from-to)	[Ømm]	12 x 5 - 7
<u>Connections</u>		
Connection type		screw terminal
Stripping length	[mm]	12
Tightening torque	[Nm]	2
<u>Wire cross-section (from-to)</u>		
Cu-fine stranded with wire ferrule	[mm²]	1 - 16
Cu-fine stranded	[mm²]	-
Cu-solid	[mm²]	1 - 25

EARTH CONNECTION

<u>Cable entry</u>		
Cable glands (EN 62444)	[Ømm]	M20
Clamping range (from-to)	[Ømm]	7 - 13
<u>Connections</u>		
Connection type		screw terminal
Stripping length	[mm]	19
Tightening torque	[Nm]	2,5
<u>Wire cross-section (from-to)</u>		
Cu-fine stranded with wire ferrule	[mm²]	1,5 - 16
Cu-fine stranded	[mm²]	-
Cu-solid or stranded	[mm²]	2,5 - 25

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TECHNICAL DATA

GENERAL DATA

• applicable / - not applicable

Dimensions WxHxD (without cable glands)	[mm]	448 x 432 x 161
Weight, approx.	[kg]	2,4
Operating temperature range	[°C]	-25...+35
Temperature - transport/storage (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		hinged door
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-1000-2x3S(x2)xx-X-BC-PC-1.0
	article number:	10013312
	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: 2018

Date of issue: 20.06.2018

enwitec electronic GmbH



Name / Signature

Johann Wimmer
CEO