

DATA SHEET

ITEM NO. 10012861

DC generator junction box

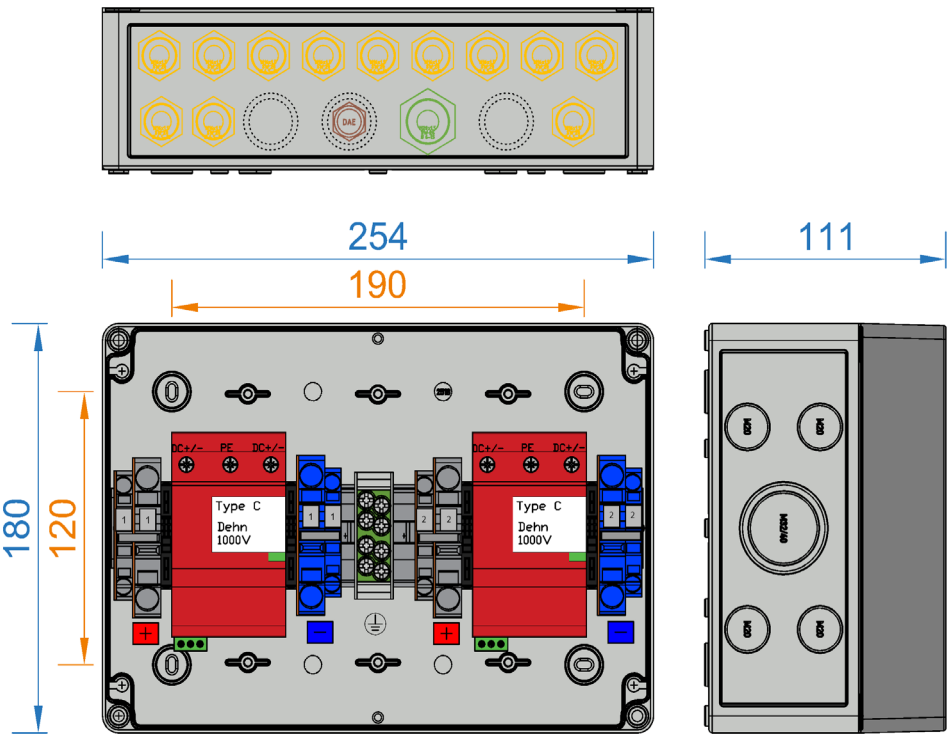
GAK-enwitec-S-1000-2x2R-X-Y-PC-1.1

All values in [mm]
Dimensions "blue"
Fastening points "orange"

Internal arrangement and components may differ depending on the variant!

Minimum distances

above	200
below	200
lateral	100
front	800



SCOPE OF DELIVERY

Quantity	Designation
1	GAK
1	Installation instructions GAK-Standard
1	M20 cable gland incl. lock nut

Quantity	Designation
12	M16 cable gland incl. locknut
1	Pressure equalisation element M12 incl. lock nut

Status: (b)
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TECHNICAL DATA

NOMINAL VALUES		• applicable / - not applicable
Rated insulation voltage U_i	[VDC]	1000
Rated operating voltage U_e	[VDC]	1000
Rated current $I_{nA} (\Sigma I_{SC STC})$	[ACD]	64
Design current* $I_{SC MAX} (= \Sigma I_{SC STC} \times 1.25)$	[ACD]	80
Number of independent MPP inputs		2
Max. number of PV strings IN/OUT		4/2
Parallel connected inputs/outputs per MPP		2/-

PRO STRANG		
Rated current $I_{inc} (= I_{SC STC})$	[ADC]	16
Design current* $I_{SC MAX} (= I_{SC STC} \times 1.25)$	[ADC]	20
Fuse in "+" potential		-
Fuse in "-" potential		-

SURGE PROTECTION DEVICE		
Test class according to EN 61643-11 (type)		II
Highest permissible continuous voltage U_{cpv}	[VDC]	1000
For type 1: lightning impulse current max. $I_{imp} 10/350$	[nA]	-

* the design current $I_{SC MAX}$ according to VDE 0100-712:2016-10 includes the factor 1.25 for $I_{SC STC}$ of the PV module or PV string.

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TECHNICAL DATA

INPUT (TO THE PV GENERATOR)		• applicable / - not applicable
Cable entries		
Fittings (EN 50262)		M16
Clamping range (from - to)	[Ømm]	8 x 4,5 - 10
Connections		
Connection type		Spring clamp
Stripping length	[mm]	13 - 15
Tightening torque	[Nm]	-
Conductor cross-section (from - to)		
Cu - finely stranded with ferrule	[mm²]	2,5 - 6
Cu - finely stranded or stranded	[mm²]	0,5 - 10
Cu - solid	[mm²]	0,5 - 10

OUTPUT (TO THE PV INVERTER)		
Cable entries		
Fittings (EN 50262)		M16
Clamping range (from - to)	[Ømm]	4 x 4,5 - 10
Connections		
Connection type		Spring clamp
Stripping length	[mm]	18 - 20
Tightening torque	[Nm]	-
Conductor cross-section (from - to)		
Cu - finely stranded with ferrule	[mm²]	6 - 16
Cu - finely stranded or stranded	[mm²]	0,5 - 25
Cu - solid	[mm²]	0,5 - 16

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TECHNICAL DATA

EARTHING CONNECTION		• applicable / - not applicable
Cable entries		
Fittings (EN 62444)		M20
Clamping range (from - to)	[Ømm]	6 - 13
Connections		
Connection type		Screw terminal
Stripping length	[mm]	19
Tightening torque	[Nm]	2,5
Conductor cross-section (from - to)		
Fine copper wire with ferrule	[mm²]	1,5 - 16
Fine-stranded copper	[mm²]	-
Solid or stranded copper wire	[mm²]	2,5 - 25

GENERAL		
Dimensions WxHxD (without screw connections)	[mm]	254 x 180 x 111
Weight, approx.	[kg]	2
Operating temperature range	[°C]	-25...+35
Temperature - transport/storage (24 hours 70°C)	[°C]	-25...+55
Humidity - condensing permitted		•
Humidity - permissible range	[%]	5...95
Degree of soiling		4
max. installation height above N.N.	[m]	2000
Protection class IP (EN 60529)		65
Outdoor suitability (protected area)		•
Protection class (EN 61140)		II
Housing material		Polycarbonate
RoHS-compliant (2011/65/EU)		•
Housing colour		similar to RAL 7035
Lid		transparent
Mounting type		Wall mounting
Closure type		Screw cap

OTHER		
Customs tariff number		85371098

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EU DECLARATION OF CONFORMITY

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

item number: **10012861**

manufacturer: **enwitec electronic GmbH
Scherrwies 2
84329 Rogglfing**

description: **Generator junction box**

to which this declaration refers complies with the following standards or standardising documents:

EN 61439-1	Low-voltage switchgear and controlgear assemblies
EN 61439-2	Energy-switchgear combinations
IEC 60364-7-712	PV power supply systems
EN 62305-3 Supplement 5	Lightning and surge protection for PV power supply systems

and complies with the provisions of the following EC Directive(s):

Low Voltage Directive 2014/35/EU

Substance bans 2011/65/EU (RoHS)

Year of affixing the CE marking: **2020**

Date of issue: **20.04.2020**

enwitec electronic GmbH



Name / Signature

Johann Wimmer
CEO

Status: (b)

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