

DATA SHEET

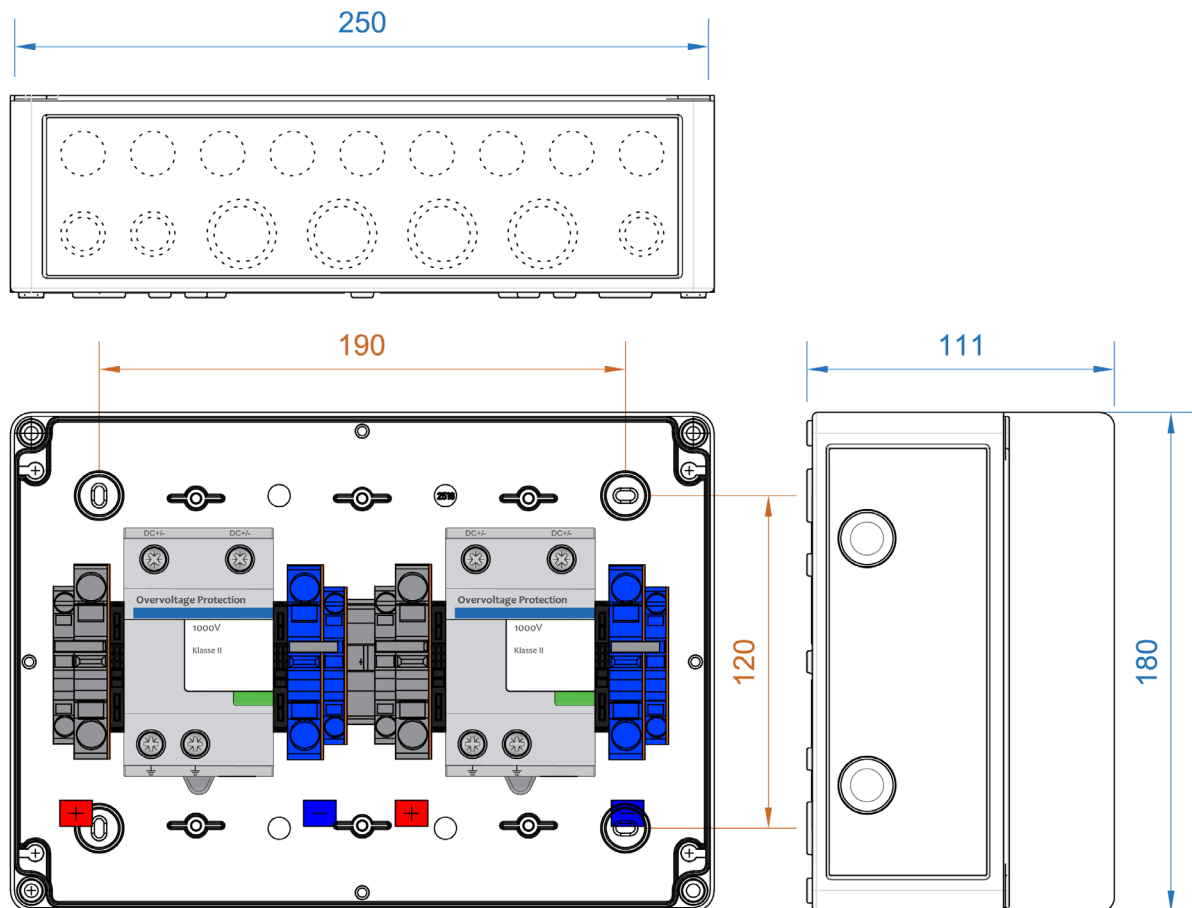
Generator Junction Box

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

Art.No. 10012755

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

Quantity	Designation
12	Cable gland M16 incl. locknut
1	Pressure equalisation valve M12 incl. locknut

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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]	32
Dimensioning value* $I_{SC\ MAX} (= \sum I_{SC\ STC} \times 1,25)$	[ADC]	40
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]	16
Dimensioning value* $I_{SC\ MAX} (= \sum I_{SC\ STC} \times 1,25)$	[ADC]	20

OVERVOLTAGE PROTECTION

Test category acc. to EN 61643-11 (Type)		II
Max. permissible continuous voltage U_{cpv}	[VDC]	1000

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
Stripping length	[mm]	19
Tightening torque	[Nm]	2,5
<u>Wire cross-section (from-to)</u>		
Cu-fine stranded with wire ferrule	[mm ²]	1,5 - 16
Cu-solid or stranded	[mm ²]	2,5 - 25

INPUT (TO THE PV-GENERATOR)

<u>Cable entry</u>		
Cable glands (EN 50262)		M16
Clamping range (from-to)		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 ²]	0,5 - 6
Cu-fine stranded	[mm ²]	0,5 - 10
Cu-solid or stranded	[mm ²]	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 ²]	0,5 - 16
Cu-fine stranded	[mm ²]	0,5 - 25
Cu-solid or stranded	[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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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)		yes
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-Y-PC-1.1**

article number: **10012872**

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

description: **Generator Junction Box**

to which this declaration refers is in conformity with 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	Requirements for special installations or locations - Solar photovoltaic (PV) power supply systems
EN 62305-3 Supplement 5	Lightning and overvoltage protection for photovoltaic 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: **2017**

Date of issue: **24.10.2017**

enwitec electronic GmbH



Name / Signature

Johann Wimmer
CEO