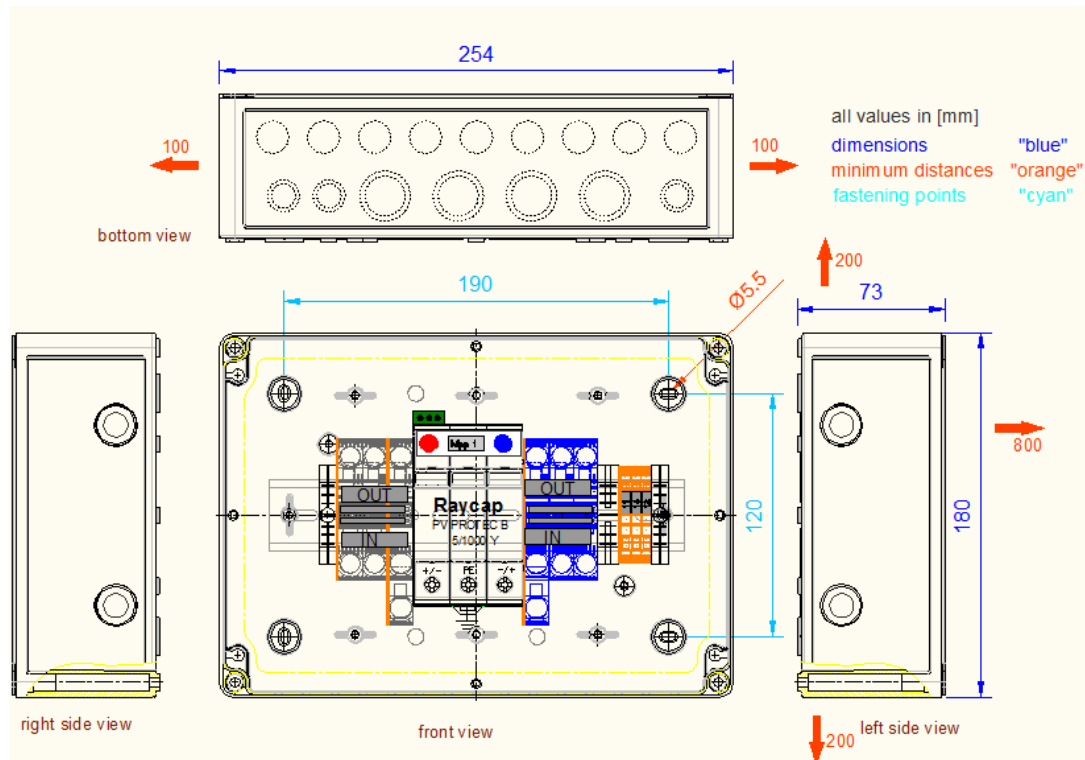


# Data sheet Rev1.1

## DC - generator junction box

enwitec-order-number	10013055
customer-article-number	
type designation	GAK-enwitec-S-1000-3R-X-BC-PC-1.1



scope of delivery			
description	order-nr.	pcs	comment
Cable Gland M20x1.5	10000737	1	
Locknut M20x1.5	10000722	2	
Cable Gland M16x1.5	10000736	13	
Locknut M16x1.5	10000721	12	
Pressure compensation element	10001971	1	
Locknut M12x1.5	10001476	1	
Reducing KRM 20/16	10008653	1	

# Data sheet Rev1.1

## DC - generator junction box

### technical specification

rated insulation voltage $U_i$	[VDC]	1000
number of isolated MPP-input(s)	[n]	1
rated operating voltage $U_e$	[VDC]	1000
rated operating current $I_{nA}$	[ADC]	60
max. number of PV-strings	[n]	3
rated operating current per string $I_{nc}$	[ADC]	20
string fuse in the "+" potential	•/-	-
string fuse in the "-" potential	•/-	-
fuse is inserted at factory setting	•/-	-
rated current value at factory setting	[A]	-

#### surge protective device (SPD)

test category acc. EN 61643-11 (type)		1+2
max. continuous operating voltage $U_{cpv}$	[VDC]	1000
only type 1: impulse current max. $I_{imp}$ 10/350 [kA]		5 per Pole

#### input (for pv-generator)

##### cable entry

cable glands (EN 50262)	•/-	•
clamping range	[Ømm]	6x 4.5-10
PV-connectors	•/-	-
PV-connectors - manufacturer/type-designation		-

##### terminals

"+" potential / "-" potential	+plus	-minus
screw terminal/spring clamp	Spring	Spring
insulation stripping length	[mm]	18...20
tightening torque	[Nm]	-
appropriate conductor material	Al/Cu	Cu

##### wire cross section

Cu-finely stranded with end sleeve	[mm <sup>2</sup> ]	From 2.5	From 2.5
Cu-finely stranded without end sleeve	[mm <sup>2</sup> ]	0.5...25	0.5...25
Cu-solid or stranded	[mm <sup>2</sup> ]	0.5...16	0.5...16

#### output (for pv-inverter)

##### cable entry

cable glands (EN 50262)	•/-	•
clamping range	[Ømm]	6x 4.5-10
PV-connectors	•/-	-
PV-connectors - manufacturer/type-designation		-

##### terminals

screw terminal/spring clamp		Spring
insulation stripping length	[mm]	18...20
tightening torque	[Nm]	-
appropriate conductor material	Al/Cu	Cu

##### wire cross section

Cu-finely stranded with end sleeve	[mm <sup>2</sup> ]	From 2.5
Cu-finely stranded without end sleeve	[mm <sup>2</sup> ]	0.5...25
Cu-solid or stranded	[mm <sup>2</sup> ]	0.5...16
Alu - round, solid	[mm <sup>2</sup> ]	-
Alu - round, stranded	[mm <sup>2</sup> ]	-
Alu - sector, solid	[mm <sup>2</sup> ]	-
Alu - sector, stranded	[mm <sup>2</sup> ]	-

#### connection to ground

##### cable entry

cable glands (EN 50262)	•/-	•
clamping range	[Ømm]	6-13

##### terminals

screw terminal/spring clamp		Screw
Min. insulation stripping length	[mm]	12
tightening torque	[Nm]	3
appropriate conductor material	Al/Cu	Cu

##### wire cross section

Cu-finely stranded with end sleeve	[mm <sup>2</sup> ]	Max. 25
Cu-finely stranded without end sleeve	[mm <sup>2</sup> ]	-
Cu-solid or stranded	[mm <sup>2</sup> ]	Max. 25
Alu - round, solid	[mm <sup>2</sup> ]	-
Alu - round, stranded	[mm <sup>2</sup> ]	-
Alu - sector, solid	[mm <sup>2</sup> ]	-
Alu - sector, stranded	[mm <sup>2</sup> ]	-

#### remote signal contact

##### cable entry

cable glands (EN 50262)	•/-	•
clamping range	[Ømm]	4.5-10

##### terminals

screw terminal/spring clamp		Spring
Min. insulation stripping length	[mm]	10...12
tightening torque	[Nm]	-
appropriate conductor material	Al/Cu	Cu

##### wire cross section

Cu-finely stranded with end sleeve	[mm <sup>2</sup> ]	0.25...4
Cu-finely stranded without end sleeve	[mm <sup>2</sup> ]	From 0.75
Cu-solid or stranded	[mm <sup>2</sup> ]	0.25...4

# Data sheet Rev1.1

## DC - generator junction box

### general data

dimensions (WxHxD)	[mm]	254x180x111
weight	[kg]	2
operating temperature range	[°C]	-25°C - + 35
derating above temperature	[°C]	-
transport + storage temperature	[°C]	-25°C - + 35
humidity - condensing permitted	•/-	-
humidity within the range of	[%]	5...95
max. altitude above sea level NN	[m]	2000
protection class IP	(EN 60529)	65
outdoor-application permitted	•/-	Protected outdoor area
exposure to <u>direct</u> weathering	•/-	-
protection against electric shock (EN 61140)		II
cabinet material		PC Polycarbonate
RoHS-conformity (2011/65/EU)	•/-	•
colour of cabinet		similar to RAL7035
way of mounting		wall mounting
quantity of expanded clay (only ground mounting)	[l]	-
Locking system		Screw lock

### relevant standards

switching devices	EN 61439-1 EN 61439-2
surge/overvoltage protection	DIN EN 62305-3 supplementary sheet 5
PV power supply systems	DIN IEC 60364-7-712

### miscellaneous

customs tariff number	85371098
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### spare parts

	order-nr.