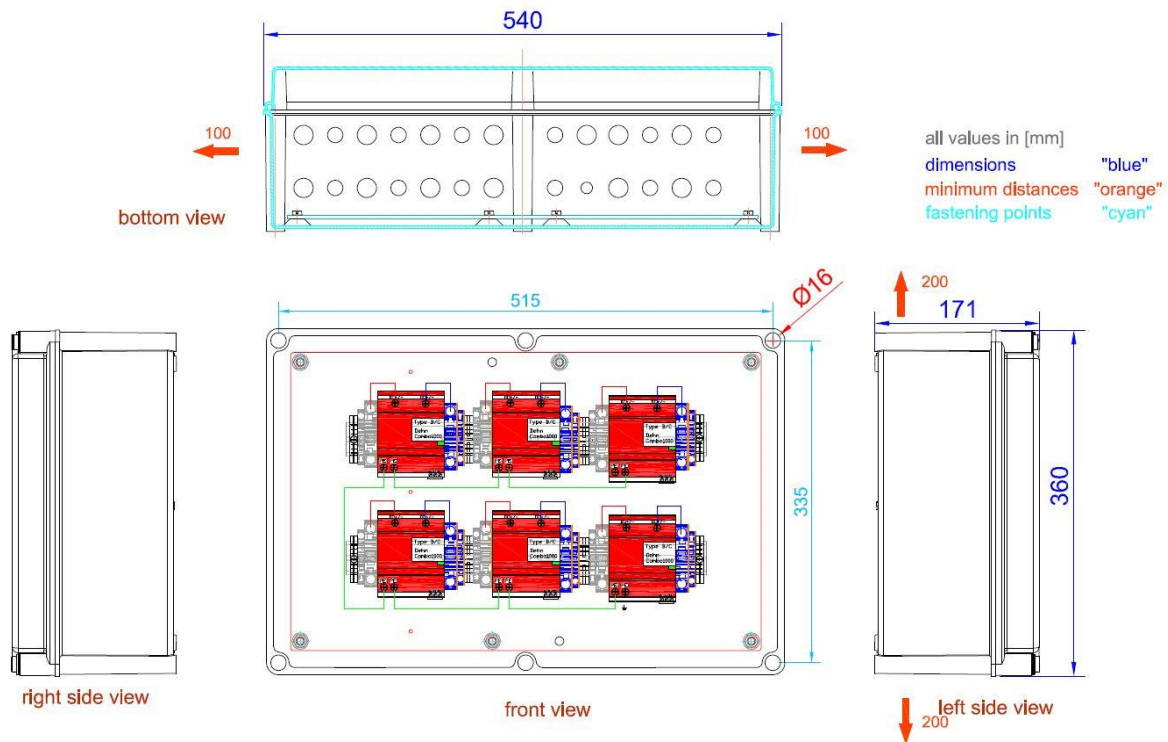


# DATA SHEET

## DC - generator junction box

enwitec-order-number	10014960
Customer-article-number	
Type designation	GAK-enwitec-S-1000-6x2R-X-BC-PC-1.0



### Scope of delivery

Description	Order-nr.	Pcs	Comment
general installation instructions for GJB	10011928	1	
Cable Gland M20x1.5	10000737	13	
Locknut M20x1.5	10000722	13	
MFD 20/02/065	10007322	12	
Cable Gland M16x1.5	10000736	12	
Locknut M16x1.5	10000721	12	
Pressure compensation element	10001971	1	
Locknut M12x1.5	10001476	1	

# DATA SHEET

## DC - generator junction box

### TECHNICAL DATA

• applicable / - not applicable

Rated insulation voltage $U_i$	[VDC]	1000
Number of isolated MPP-input(s)	[n]	6
Rated operating voltage $U_e$	[VDC]	1000
Rated operating current $I_{NA}$ ( $= \sum I_{SC\ STC}$ )	[ADC]	24
Dimensioning value* $I_{SC\ MAX}$ ( $= \sum I_{SC\ STC} \times 1,25$ )	[ADC]	30
Max. number of PV-strings	[n]	2
<u>Per string</u>		
Rated operating current $I_{nc}$ ( $= I_{SC\ STC}$ )	[ADC]	12
Dimensioning value* $I_{SC\ MAX}$ ( $= I_{SC\ STC} \times 1,25$ )	[ADC]	15
Fuse in the "+" potential	•/-	-
Fuse in the "-" potential	•/-	-
Fuse 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 pol

#### Input (for PV-generator)

##### Cable entry

Cable glands (EN 50262)	•/-	•
Clamping range	[Ømm]	12x2 openings M20 (5-6.5)
PV-connectors	•/-	-
PV-connectors - manufacturer/type-designation		-

##### Terminals

"+" potential / "-" potential	+PLUS	-MINUS
Screw terminal/spring clamp	Spring	Spring
Insulation stripping length	[mm]	13-15
Tightening torque	[Nm]	-

##### Wire cross-section (from-to)

Cu - finely stranded with end sleeve	[mm <sup>2</sup> ]	From 1.5	From 1.5
Cu - finely stranded without end sleeve	[mm <sup>2</sup> ]	0.5-10	0.5-10
Cu- solid or stranded	[mm <sup>2</sup> ]	1-10	1-10

#### Output (for PV-inverter)

##### Cable entry

Cable glands (EN 50262)	•/-	•
Clamping range	[Ømm]	12x(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 (from-to)

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]	1xM20(6-13)

##### Terminals

Screw terminal/spring clamp		Spring
Insulation stripping length	[mm]	12
Tightening torque	[Nm]	2.5
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> ]	-

#### GENERAL DATA

Dimension (WxHxD)	[mm]	540x360x171
Weight	[kg]	Approx. 14
Operating temperature range	[°C]	-25°C - + 35
Derating above temperature	[°C]	-
Transport and 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	•/-	-
Protection against electric shock (EN 61140)		II
Cabinet material		PC Polycarbonate
RoHS-conformity (2011/65/EU)	•/-	•
Colour of cabinet		Base part grey similar to RAL7035; Cover transparent
Way of mounting		wall mounting
Quantity of expanded clay (only ground mounting)	[l]	-
Locking system		Screw lock

\*  
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.

# DATA SHEET

## DC - generator junction box



### Relevant standards

Switching devices	EN 61439-1 EN 61439-2
PV power supply systems	DIN IEC 60364-7- 712

### Miscellaneous

Customs tariff number	85371098

### Spare parts

	Order-nr.