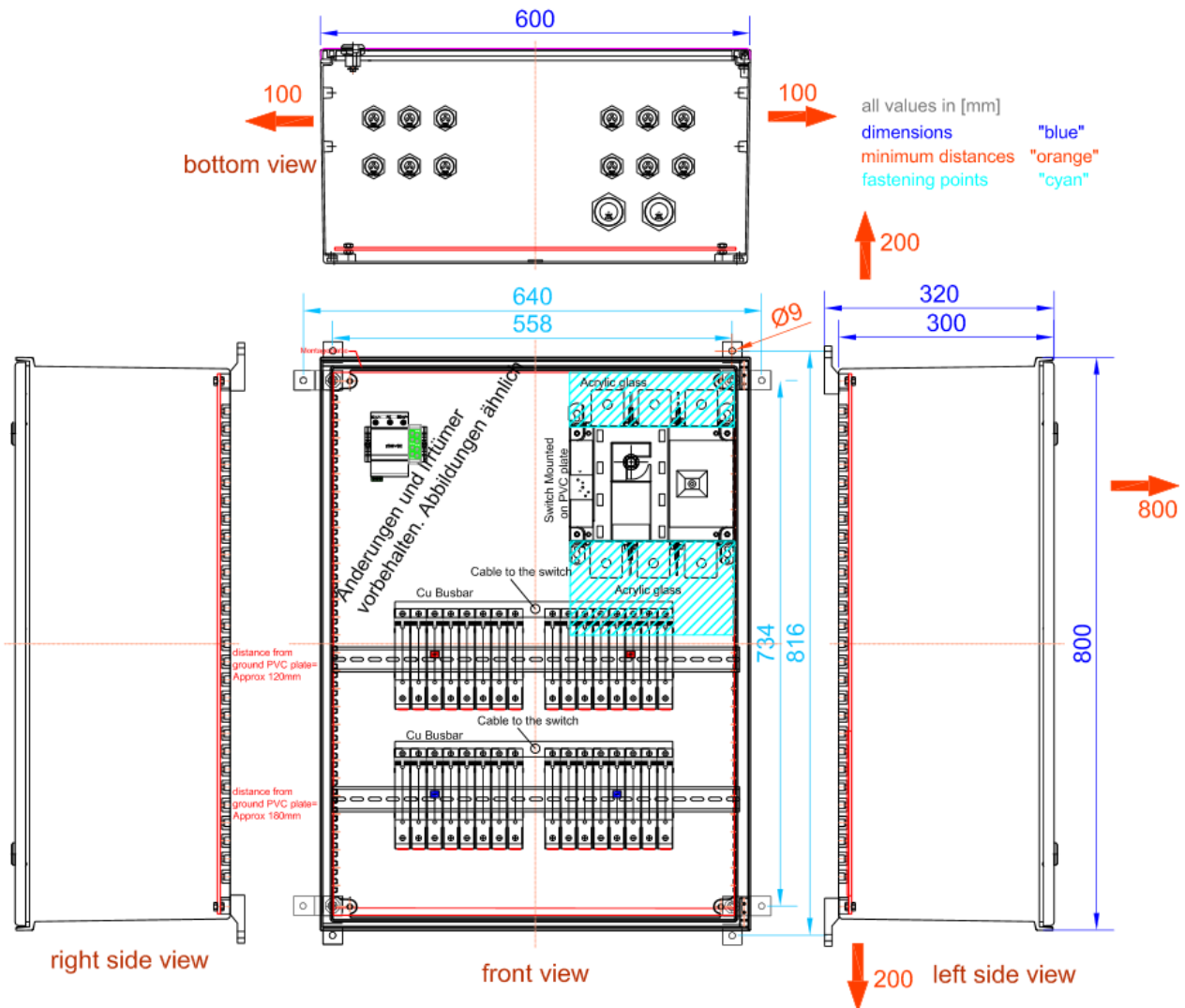


# DATA SHEET

## DC - generator junction box

enwitec-order-number	10013627
Customer-article-number	
Type designation	GAK-enwitec-S-1500-16S(x2)x-T400-BC-PES-1.0_240mm <sup>2</sup>



Scope of delivery			
Description	Order-nr.	Pcs	Comment
general installation instructions for GJB	10011928	1	
Cable Gland M25x1.5 with 3x sealing insert	10011305	12	
Locknut M25x1.5	10000723	12	
Blind Plug	10007139	4	
Hugro Cable Gland M40x1.5	10012185	2	
Locknut M40x1.5	10000725	2	
Cable Gland M20x1.5	10000737	1	
Locknut M20x1.5	10000722	1	

# DATA SHEET

## DC - generator junction box

### TECHNICAL DATA

• applicable / - not applicable

Rated insulation voltage $U_i$	[VDC]	1500
Number of isolated MPP-input(s)	[n]	1
Rated operating voltage $U_e$	[VDC]	1500
Rated operating current $I_{NA}$ ( $= \sum I_{SC\ STC}$ )	[ADC]	192
Dimensioning value* $I_{SC\ MAX}$ ( $= \sum I_{SC\ STC} \times 1,25$ )	[ADC]	240
Max. number of PV-strings	[n]	16

#### Per string

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]	-

#### Load circuit breaker

Thermal current $I_{th}$ at 60°C	[A]	400
Utilization category acc. DIN EN 60947-3		DC-21B
Manufacturer and type designation		Socomec

#### Surge protective device (SPD)

test category acc. EN 61643-11 (type)		Type 1+2/BC
max. continuous operating voltage $U_{cpv}$	[VDC]	1500
only type 1: impulse current max. $I_{imp}$ 10/350	[kA]	5 per pole

#### Input (for PV-generator)

##### Cable entry

Cable glands (EN 50262)	•/-	•12x threefold-M25
Clamping range	[Ømm]	5-7

##### Terminals

"+" potential / "-" potential		+PLUS	-MINUS
Screw terminal/spring clamp		Screw	Screw
Insulation stripping length	[mm]	12	12
Tightening torque	[Nm]	2	2

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

Cu - finely stranded with end sleeve	[mm <sup>2</sup> ]	0.75...16	0.75...16
Cu - finely stranded without end sleeve	[mm <sup>2</sup> ]	-	-
Cu- solid or stranded	[mm <sup>2</sup> ]	1...16	1...16

#### Output (for PV-inverter)

##### Cable entry

Cable glands (EN 50262)	•/-	• 2x M40
Clamping range	[Ømm]	18-32

\*

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.

\*\* Cable lugs are not included in delivery. Bimetal cable lugs must be used on aluminum cables!

When connecting aluminum conductors, the practice-oriented processing guidelines must be observed!

The contact surfaces of the aluminum conductors are to be cleaned, brushed and treated with suitable grease.

#### Terminals

Screw terminal/spring clamp		M12** connection for cable lugs
Insulation stripping length	[mm]	-
Tightening torque	[Nm]	20-26
Appropriate conductor material	Al/Cu	Al**/Cu
Wire cross-section (from-to)		
Cu - solid or stranded	[mm <sup>2</sup> ]	Max. 240
Alu - round, solid	[mm <sup>2</sup> ]	Max. 240
Alu - round, stranded	[mm <sup>2</sup> ]	Max. 240
Alu - sector, solid	[mm <sup>2</sup> ]	Max. 240
Alu - sector, stranded	[mm <sup>2</sup> ]	Max. 240

#### Connection to ground

##### Cable entry

Cable glands (EN 50262)	•/-	• 1x M20
Clamping range	[Ømm]	6-13

##### Terminals

Screw terminal/spring clamp		Screw
Insulation stripping length	[mm]	19
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. 16
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]	600 x 800 x 300
Weight	[kg]	Approx.31
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		PES Polyester
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		Double bit lock

# 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	85372091

### Spare parts

	Order-nr.