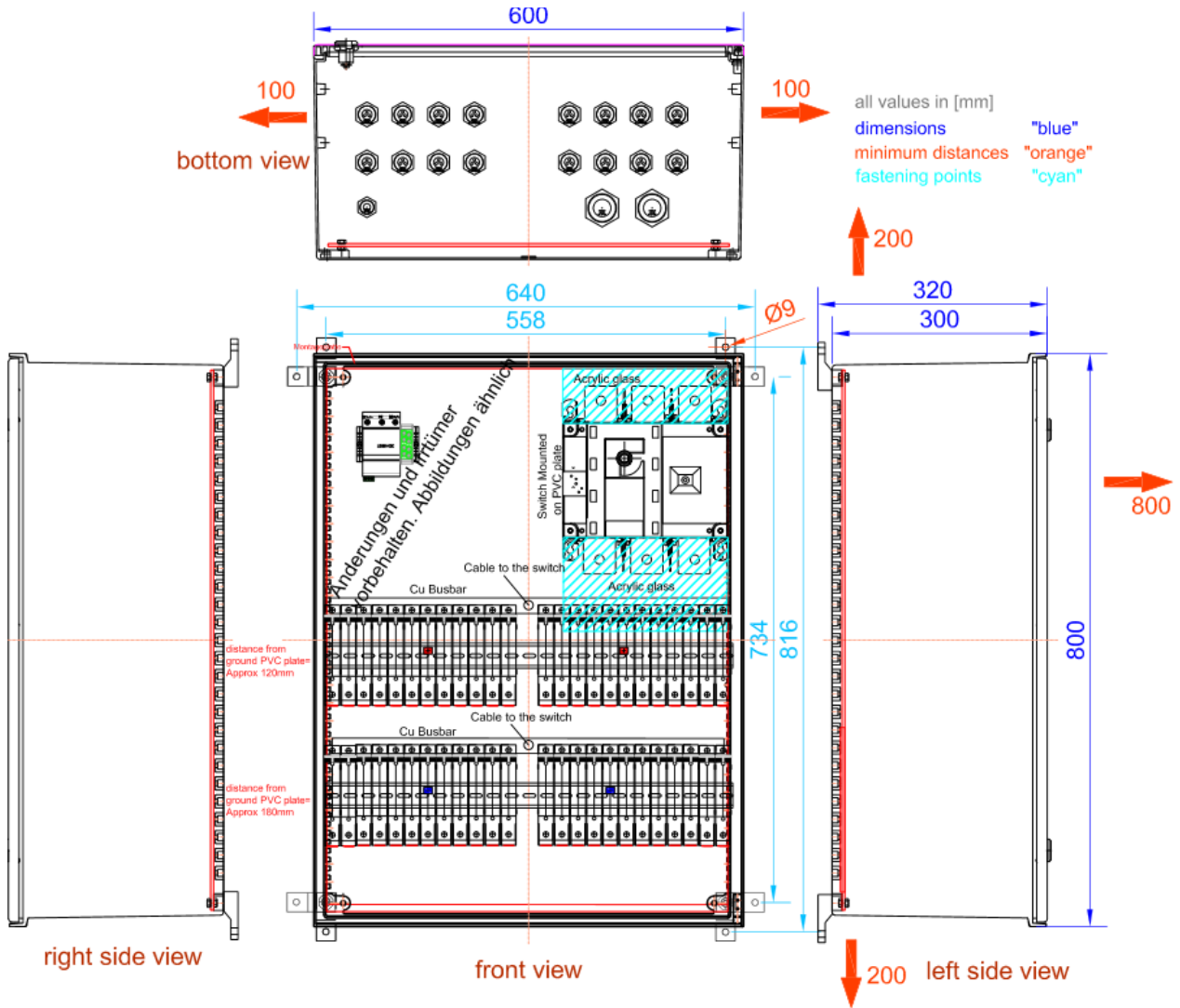


DATA SHEET

DC - generator junction box

enwitec-order-number	10014451
Customer-article-number	
Type designation	GAK-enwitec-S-1500-24S(x2)x-T400-BC-PES-1.0_300mm ²



Scope of delivery			
Description	Order-nr.	Pcs	Comment
general installation instructions for GJB	10011928	1	
Cable Gland M25x1.5 with 3x sealing insert	10011305	16	
Locknut M25x1.5	10000723	16	
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]	288
Dimensioning value* $I_{SC,MAX}$ ($= \sum I_{SC,STC} \times 1,25$)	[ADC]	360
Max. number of PV-strings	[n]	24

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)	•/-	• 16x 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 ²]	0.75...16	0.75...16
Cu - finely stranded without end sleeve	[mm ²]	-	-
Cu- solid or stranded	[mm ²]	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 ²]	Max. 300
Alu - round, solid	[mm ²]	Max. 300
Alu - round, stranded	[mm ²]	Max. 300
Alu - sector, solid	[mm ²]	Max. 300
Alu - sector, stranded	[mm ²]	Max. 300

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 ²]	Max. 16
Cu-finely stranded without end sleeve	[mm ²]	-
Cu-solid or stranded	[mm ²]	Max. 25
Alu - round, solid	[mm ²]	-
Alu - round, stranded	[mm ²]	-
Alu - sector, solid	[mm ²]	-
Alu - sector, stranded	[mm ²]	-

GENERAL DATA

Dimension (WxHxD)	[mm]	600 x 800 x 300
Weight	[kg]	Approx.35
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.