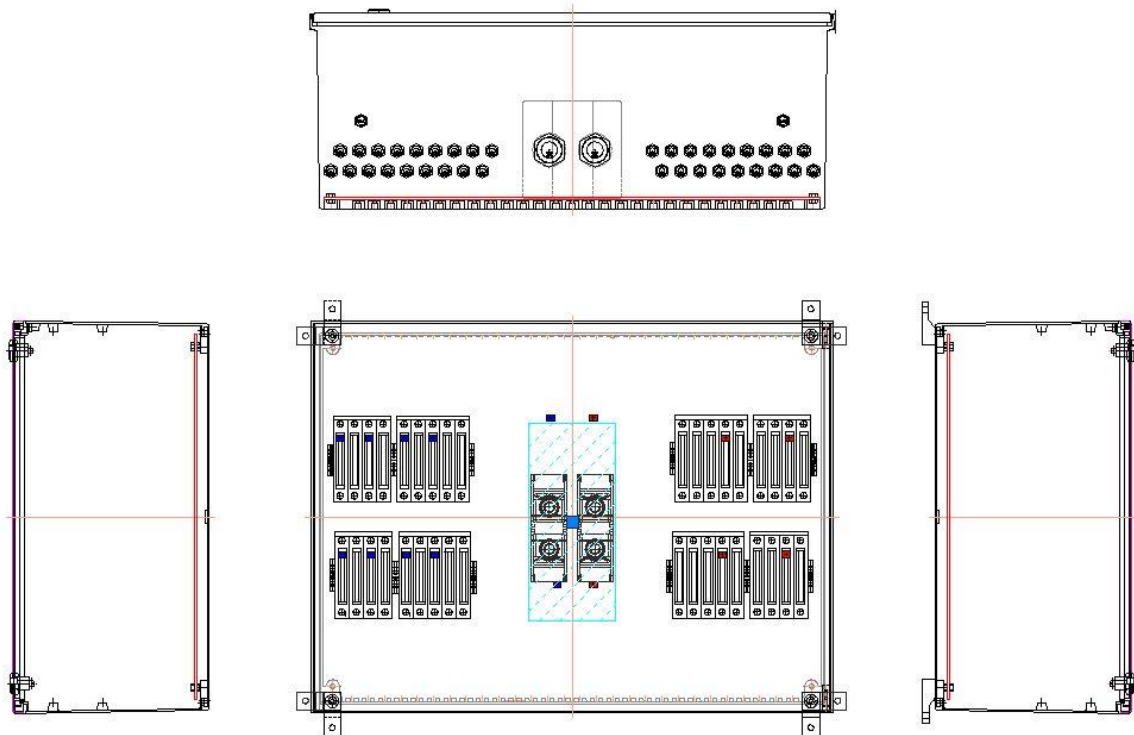


# DATA SHEET

## DC - generator junction box

enwitec-order-number	10013882
Customer-article-number	
Type designation	GAK-enwitec-S-1500-18S(x2)15A-X-X-PES-1.0



Scope of delivery			
Description	Order-nr.	Pcs	Comment
general installation instructions for GJB	10011928	1	
Cable Gland M40x1.5	10012185	2	
Locknut M40x1.5	10001480	2	
Cable Gland M16x1.5	10000736	36	
Locknut M16x1.5	10000721	36	
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]	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]	216
Dimensioning value* $I_{SC\ MAX}$ ( $= \sum I_{SC\ STC} \times 1,25$ )	[ADC]	270
Max. number of PV-strings	[n]	18

#### 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]	15

#### Input (for PV-generator)

##### Cable entry

Cable glands (EN 50262)	•/-	•
Clamping range	[Ømm]	36xM16(4.5-10)
PV-connectors	•/-	-
PV-connectors - manufacturer/type-designation		-

##### Terminals

"+" potential / "-" potential	+PLUS	- MINUS
Screw terminal/spring clamp	Screw	Screw
Insulation stripping length	[mm]	12
Tightening torque	[Nm]	2.2

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

	[mm <sup>2</sup> ]	0.75-10	0.75-10
Cu - finely stranded with end sleeve	[mm <sup>2</sup> ]	-	-
Cu - finely stranded without end sleeve	[mm <sup>2</sup> ]	1-16	1-16

#### Output (for PV-inverter)

##### Cable entry

Cable glands (EN 50262)	•/-	•
Clamping range	[Ømm]	2xM40(18-32)
PV-connectors	•/-	-
PV-connectors - manufacturer/type-designation		-

##### Terminals

Screw terminal/spring clamp		M12 Bolt-type screw terminals
Insulation stripping length	[mm]	-
Tightening torque	[Nm]	14-31
Appropriate conductor material	Al/Cu	Al/Cu

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

	[mm <sup>2</sup> ]	25---240
Cu - finely stranded with end sleeve	[mm <sup>2</sup> ]	25---240
Cu - finely stranded without end sleeve	[mm <sup>2</sup> ]	25---240
Cu - solid or stranded	[mm <sup>2</sup> ]	25---240
Alu - round, solid	[mm <sup>2</sup> ]	25---240
Alu - round, stranded	[mm <sup>2</sup> ]	25---240
Alu - sector, solid	[mm <sup>2</sup> ]	25---240
Alu - sector, stranded	[mm <sup>2</sup> ]	25---240

### GENERAL DATA

Dimension (WxHxD)	[mm]	800x600x300
Weight	[kg]	Approx. 24
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)		-
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

#### Relevant standards

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

#### Miscellaneous

Customs tariff number	

#### Spare parts

	Order-nr.

\* 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.