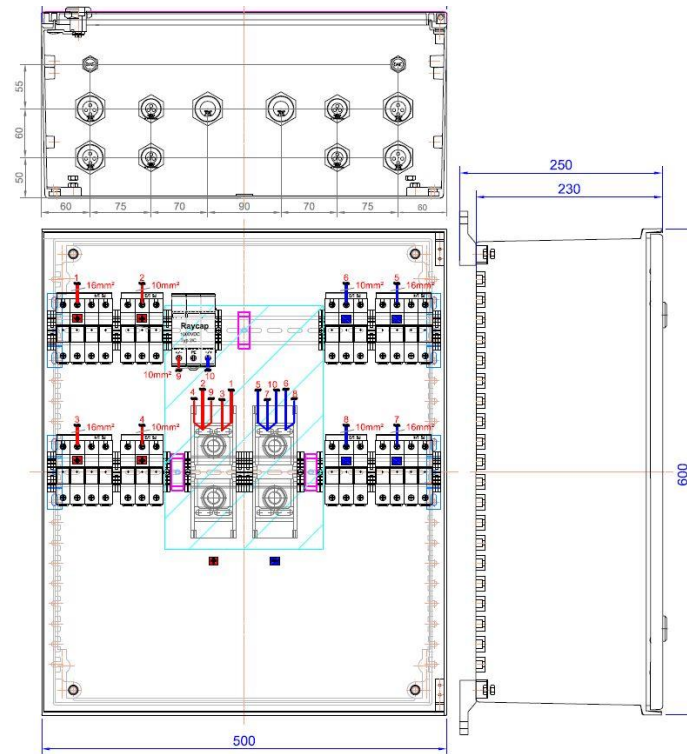


DATA SHEET

DC - generator junction box

enwitec-order-number	10013288
Customer-article-number	
Type designation	GAK-enwitec-S-1000-14S(x2)-X-Y-PES-1.1



Scope of delivery

Description	Order-nr.	Pcs	Comment
general installation instructions for GJB	10011928	1	
Cable Gland M32x1.5 incl. MFD 32/04/70	10011347	4	
Locknut M32x1.5	10000724	4	
Cable Gland M40x1.5	10000740	2	
Locknut M40x1.5	10000725	2	
Pressure compensation element	10001971	2	
Locknut M12x1.5	10001476	2	
Wiska-Blind plug BS7 (for MFD 25-3)	10007139	4	
Cable Gland M25x1.5 incl. MFD 25/03/70	10011305	4	
Locknut M25x1.5	10000723	4	

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]	1
Rated operating voltage U_e	[VDC]	1000
Rated operating current I_{nA} ($= \sum I_{SC\ STC}$)	[ADC]	168
Dimensioning value* $I_{SC\ MAX}$ ($= \sum I_{SC\ STC} \times 1,25$)	[ADC]	210
Max. number of PV-strings	[n]	14

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]	-

Surge protective device (SPD)

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

Input (for PV-generator)

Cable entry

Cable glands (EN 50262)	•/-	•
Clamping range	[Ømm]	4x4openings M32(5-7) 4x3openings M25(5-7)
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)

Cu - finely stranded with end sleeve	[mm ²]	From 0.75-10	From 0.75-10
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)	•/-	•
Clamping range	[Ømm]	2xM40(16-28)
PV-connectors	•/-	-
PV-connectors - manufacturer/type-designation		-

Terminals

Screw terminal/spring clamp		M12 Screw connection
Insulation stripping length	[mm]	-
Tightening torque	[Nm]	10
Appropriate conductor material	Al/Cu	Cu

Wire cross-section (from-to)

Cu - finely stranded with end sleeve	[mm ²]	70 – 150
Cu - finely stranded without end sleeve	[mm ²]	-
Cu - solid or stranded	[mm ²]	70 – 150
Alu - round, solid	[mm ²]	70 – 150
Alu - round, stranded	[mm ²]	70 – 150
Alu - sector, solid	[mm ²]	70 – 150
Alu - sector, stranded	[mm ²]	70 – 150

Connection to ground

Cable entry

Cable glands (EN 50262)	•/-	•
Clamping range	[Ømm]	1xM20(6-13)

Terminals

Screw terminal/spring clamp		Screw
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 ²]	Max. 25
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]	500x00x230
Weight	[kg]	-
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

*

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.