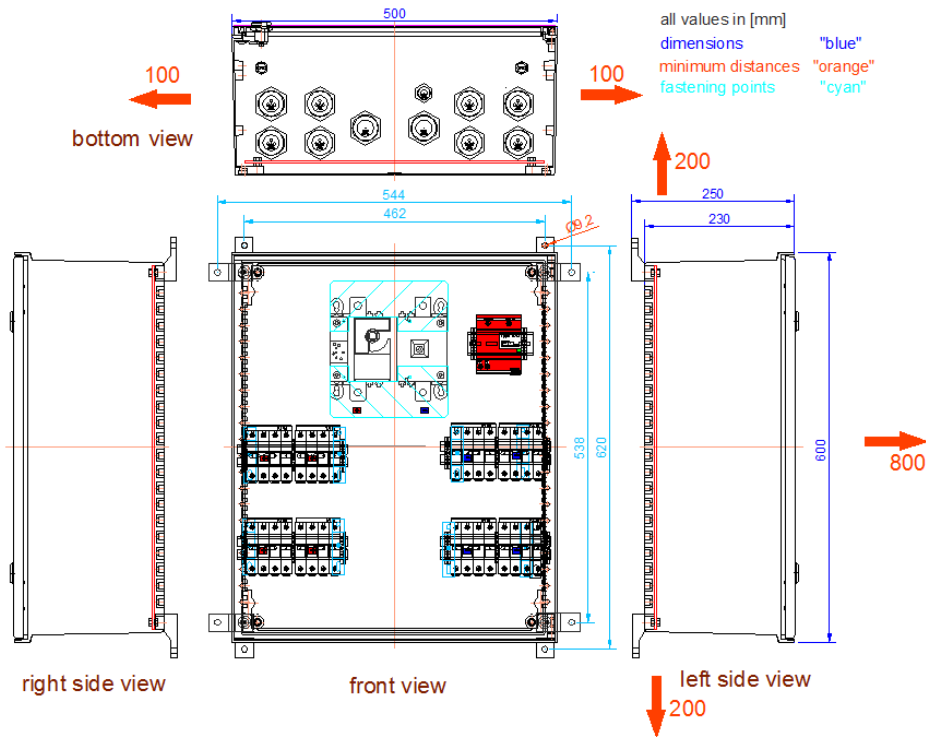


Data sheet Rev1.0

DC - generator junction box

enwitec-order-number	10013327
customer-article-number	
type designation	GAK-enwitec-S-1000-16S(x2)xx-T250-BC-PES-1.0



scope of delivery			
description	order-nr.	pcs	comment
General installation instructions GAK	10011928	1	
Cable Gland M32x1.5 incl MFD 32/04/070	10011347	8	
Locknut M32x1.5	10000724	8	
Cable Gland M40x1.5	10000740	2	
Locknut M40x1.5	10000725	2	
Cable Gland M20x1.5	10000737	1	
Lock Nut M20x1.5	10000722	1	
Pressure compensation element DAE M12x1.5	10001971	2	
Lock Nut M12x1.5	10001476	2	

Data sheet Rev1.0

DC - generator junction box

technical specification

rated insulation voltage U_i	[VDC]	1000		
number of isolated MPP-input(s)	[n]	1	2	3
rated operating voltage U_e	[VDC]	1000		
rated operating current I_{nA}	[ADC]	160		
max. number of PV-strings	[n]	16		
rated operating current per string I_{nc}	[ADC]	10		
string fuse in the "+" potential	•/-	•		
string fuse in the "-" potential	•/-	•		
fuse is inserted at factory setting	•/-	-		
rated current value at factory setting	[A]	-		

load circuit breaker

thermal current I_{th} at 60°C	[A]	250
utilization category	acc. DIN EN 60947-3	DC-21B
manufacturer and type designation		SIRCO PV 500V/P 2X250A

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]		6.25 per pole

input (for pv-generator)

cable entry

cable glands (EN 50262)	•/-	•
clamping range	[Ømm]	32x 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	12
tightening torque	[Nm]	2.2	2.2
appropriate conductor material	Al/Cu	Cu	Cu

wire cross section

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)	•/-	•
clamping range	[Ømm]	2x 16-28
PV-connectors	•/-	-
PV-connectors - manufacturer/type-designation		-

terminals

screw terminal/spring clamp		M10 Screw connection
insulation stripping length	[mm]	-
tightening torque	[Nm]	26
appropriate conductor material	Al/Cu	Al*/Cu
wire cross section		
Cu-finely stranded with end sleeve	[mm ²]	-
Cu-finely stranded without end sleeve	[mm ²]	-
Cu-solid or stranded	[mm ²]	-
Alu - round, solid	[mm ²]	-
Alu - round, stranded	[mm ²]	-
Alu - sector, solid	[mm ²]	-
Alu - sector, stranded	[mm ²]	-

connection to ground

cable entry

cable glands (EN 50262)	•/-	•
clamping range	[Ømm]	6-13

terminals

screw terminal/spring clamp		Screw
insulation stripping length	[mm]	15
tightening torque	[Nm]	2.5
appropriate conductor material	Al/Cu	Cu

wire cross section

Cu-finely stranded with end sleeve	[mm ²]	4...16
Cu-finely stranded without end sleeve	[mm ²]	-
Cu-solid or stranded	[mm ²]	Solid wire 1.5...25 stranded wire 16...25
Alu - round, solid	[mm ²]	-
Alu - round, stranded	[mm ²]	-
Alu - sector, solid	[mm ²]	-
Alu - sector, stranded	[mm ²]	-

*For aluminum cables, bimetal cable lugs must be used! Bimetallic cable lugs are not included

When connecting aluminum conductors, the usual processing guidelines must be observed! The contact surfaces of the aluminum conductors must be cleaned, brushed and treated with suitable grease.

Data sheet Rev1.0

DC - generator junction box

general data

dimensions (WxHxD)	[mm]	500 x 600 x 230
weight	[kg]	-
operating temperature range	[°C]	-25°C - + 35
derating above temperature	[°C]	-
transport + 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	•/-	-
exposure to <u>direct</u> weathering	•/-	-
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 key lock

relevant standards

switching devices	EN 61439-1 EN 61439-2
surge/overvoltage protection	DIN EN 62305-3 supplementary sheet 5
PV power supply systems	DIN IEC 60364-7-712

miscellaneous

customs tariff number	85371098
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spare parts

	order-nr.
Dehn DCB YPV SCI 1000 FM Kompakt Klasse I-II	10010504