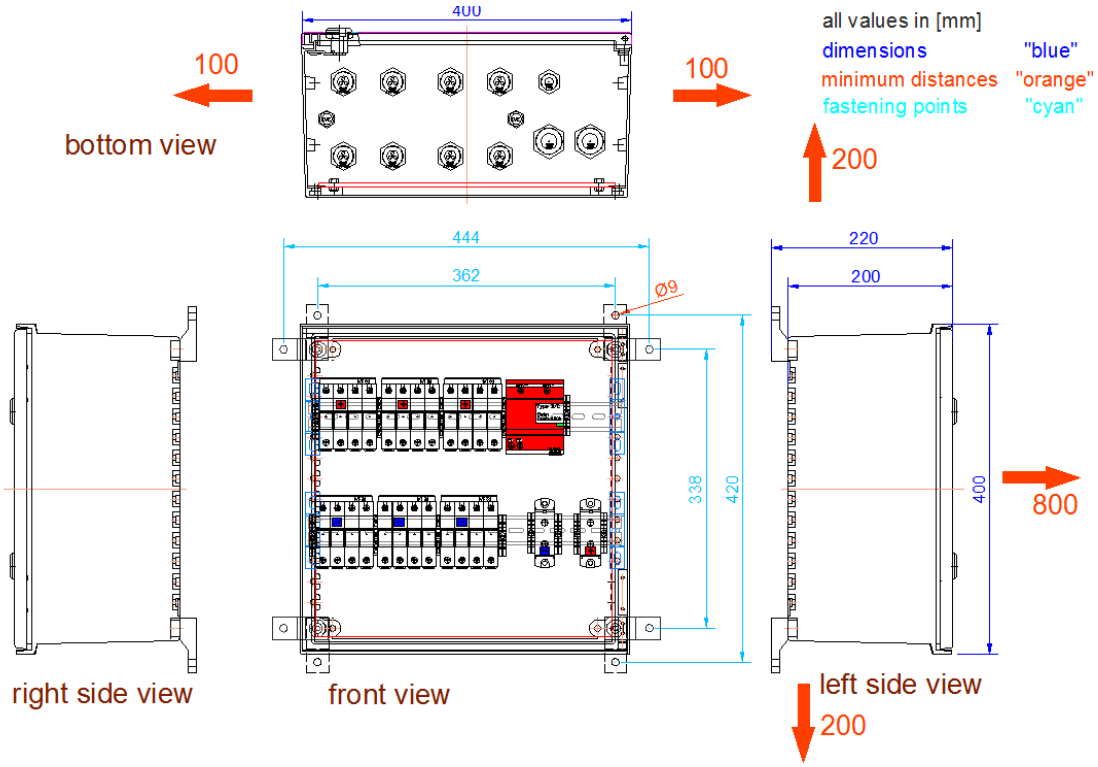
Data sheet Rev1.0

DC - generator junction box

enwitec-order-number	10013253
customer-article-number	
type designation	GAK-enwitec-S-1000-12(x2)S15-X-BC-PES-1.0



scope of delivery			
description	order-nr.	pcs	comment
Cable Gland M25x1.5 incl. MFD 25/03/070	10011305	8	
Lock Nut M25x1.5	10000723	8	
Cable Gland M32x1.5	10000739	2	
Lock Nut M32x1.5	10000724	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	

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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]	120		
max. number of PV-strings	[n]	12		
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]	15		
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]	24x 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 13-21		
PV-connectors	•/-	-		
PV-connectors - manufacturer/type-designation		-		

terminals		
screw terminal/spring clamp		Screw
insulation stripping length	[mm]	-
tightening torque	[Nm]	12 (6-25mm²) 22 (35-95mm²)
appropriate conductor material	Al/Cu	Al*/Cu
wire cross section		
Cu-finely stranded with end sleeve	[mm^2]	6…70
Cu-finely stranded without end sleeve	[mm^2]	-
Cu-solid or stranded	[mm^2]	6…95
Alu - round, solid	[mm^2]	6…95
Alu - round, stranded	[mm^2]	6…95
Alu - sector, solid	[mm^2]	6…95
Alu - sector, stranded	[mm^2]	6…95
connection to ground		
cable entry		
cable glands (EN 50262)	•/-	•
clamping range	[Ømm]	6-13
terminals		
screw terminal/spring clamp		Screw
Min. insulation stripping length	[mm]	12
tightening torque	[Nm]	4
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]	-

*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.

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general data		
dimensions (WxHxD)	[mm]	400 x 400 x 200
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 direct 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
spare parts		order-nr.
Dehn DCB YPV SCI 1000		10010504