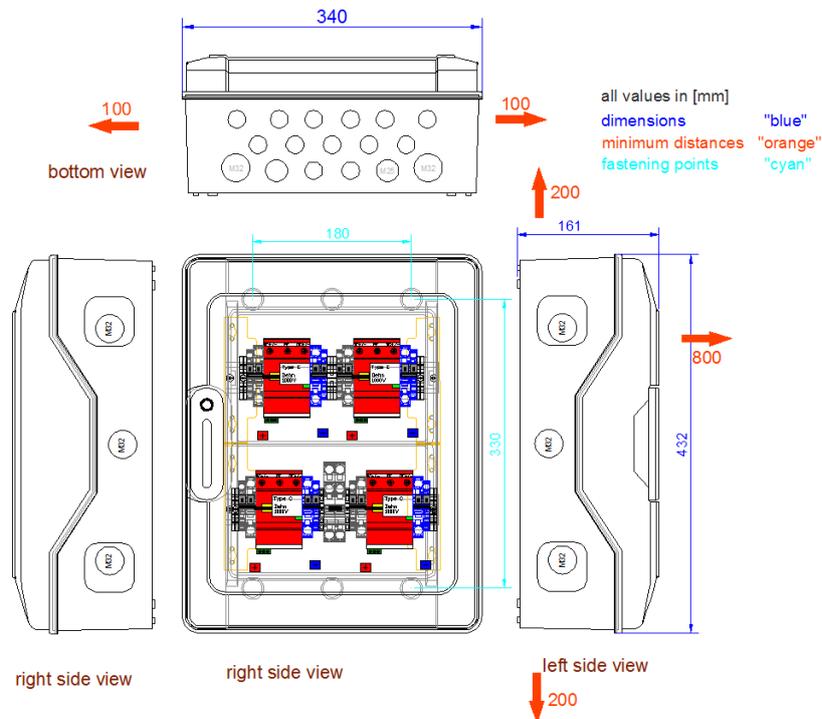


Data sheet Rev1.0

DC - generator junction box

enwitec-order-number	10013377
customer-article-number	
type designation	GAK-enwitec-S-1000-4x2R-X-Y-PC-1.0



scope of delivery			
description	order-nr.	pcs	comment
Cable Gland M20x1.5	10000737	9	
Sealing insert MFD 20/02/065	10007322	8	
Locknut M20x1.5	10000722	13	
Cable Gland M16x1.5	10000736	8	
Reducing KRM 20/16	10008653	4	
Reducing KRM 32/25	10008659	2	
Reducing KRM 25/16	10008655	4	
Pressure compensation element	10001971	1	
Reducing KRM 32/12	10013391	1	

Data sheet Rev1.0

DC - generator junction box

technical specification

rated insulation voltage U_i	[VDC]	1000		
number of isolated MPP-input(s)	[n]	1/2/3/4		
rated operating voltage U_e	[VDC]	1000		
rated operating current I_{nA}	[ADC]	20		
max. number of PV-strings	[n]	2		
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]	-		

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]	16x 5-6.5		
PV-connectors	•/-	-		
PV-connectors - manufacturer/type-designation		-		

Terminals

"+" potential / "-" potential		+plus	-minus
screw terminal/spring clamp		Spring	Spring
insulation stripping length	[mm]	13...15	13...15
tightening torque	[Nm]	-	-
appropriate conductor material	Al/Cu	Cu	Cu

wire cross section

Cu-finely stranded with end sleeve	[mm ²]	From 1.5	From 1.5
Cu-finely stranded without end sleeve	[mm ²]	0.5-10	0.5-10
Cu-solid or stranded	[mm ²]	1-10	1-10

output (for pv-inverter)

cable entry

cable glands (EN 50262)	•/-	•		
clamping range	[Ømm]	8x 4.5-10		
PV-connectors	•/-	-		
PV-connectors - manufacturer/type-designation		-		

terminals

screw terminal/spring clamp		Spring
insulation stripping length	[mm]	18...20
tightening torque	[Nm]	-
appropriate conductor material	Al/Cu	Cu

wire cross section

Cu-finely stranded with end sleeve	[mm ²]	From 2.5
Cu-finely stranded without end sleeve	[mm ²]	0.5...25
Cu-solid or stranded	[mm ²]	0.5...16
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		Spring
Min. insulation stripping length	[mm]	18...20
Max. tightening torque	[Nm]	-
appropriate conductor material	Al/Cu	Cu

wire cross section

Cu-finely stranded with end sleeve	[mm ²]	From 2.5
Cu-finely stranded without end sleeve	[mm ²]	0.5...25
Cu-solid or stranded	[mm ²]	0.5...16
Alu - round, solid	[mm ²]	-
Alu - round, stranded	[mm ²]	-
Alu - sector, solid	[mm ²]	-
Alu - sector, stranded	[mm ²]	-

Data sheet Rev1.0

DC - generator junction box

general data

dimensions (WxHxD)	[mm]	340 x 430 x 161
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		PC Polycarbonate with transparent lid
RoHS-conformity (2011/65/EU)	•/-	•
colour of cabinet		similar to RAL7035
way of mounting		wall mounting
quantity of expanded clay (only ground mounting)	[I]	-
locking system		Folding lid/ Screw 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 DG YPV SCI 1000 FM Kompakt		10010313