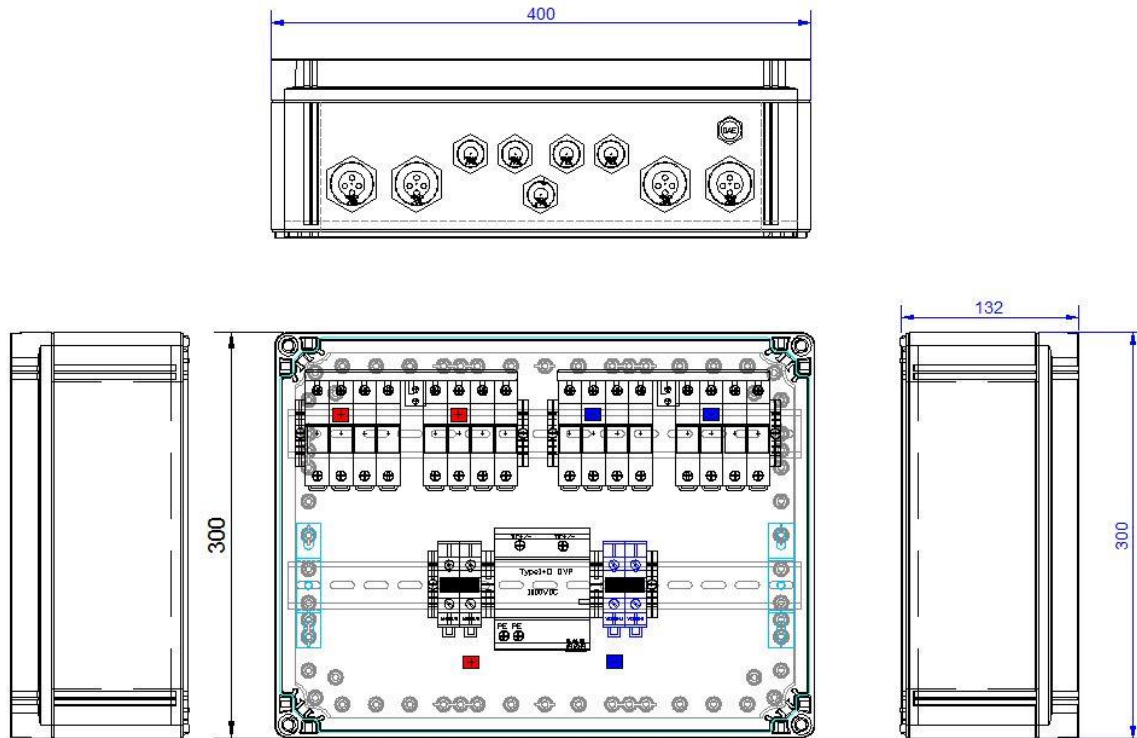


Data sheet Rev1.0

DC - generator junction box

enwitec-order-number	10013283
customer-article-number	
type designation	GAK-enwitec-S-1000-8S(x2)xx-X-BC-PC-1.0



scope of delivery			
description	order-nr.	pcs	comment
Cable Gland M32x1.5 incl. MFD 40/04/70	10011347	4	Cable Gland including 4-oprening sealing insert
Locknut M32x1.5	10000724	4	
Cable Gland M20x1.5	10000737	5	
Locknut M20x1.5	10000722	5	
Pressure compensation element	10001971	1	
Locknut M12x1.5	10001476	1	
Closed Twisting sleeve EMN10 M20x1.5	10008834	2	

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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]	80		
max. number of PV-strings	[n]	8		
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)		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]	16x 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		

wire cross section

Cu-finely stranded with end sleeve	[mm ²]	0.75...10	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]	4x 6-13		
PV-connectors	•/-	-		
PV-connectors - manufacturer/type-designation		-		

terminals

screw terminal/spring clamp		screw	
insulation stripping length	[mm]	18	
tightening torque	[Nm]	3	
appropriate conductor material	Al/Cu	Cu	
wire cross section			
Cu-finely stranded with end sleeve	[mm ²]	10...35	
Cu-finely stranded without end sleeve	[mm ²]	-	
Cu-solid or stranded	[mm ²]	Solid wire 10...10 Stranded wire 16...50	
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	
Min. insulation stripping length	[mm]	12	
Max. 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]	-	

Data sheet Rev1.0

DC - generator junction box

general data

dimensions (WxHxD)	[mm]	400 x 300 x 132
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)	[l]	-
locking system		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

spare parts

		order-nr.
DG YPV SCI 1000 FM Kompakt (BC)		10010504
PV Protec BR 5/1000Y TD		10012614