Data sheet Rev1.0
DC - generator junction box

enwitec-order-number	10013312
customer-article-number	
type designation	GAK-enwitec-S-1000-2x3S(x2)xx-X-BC-PC-1.0
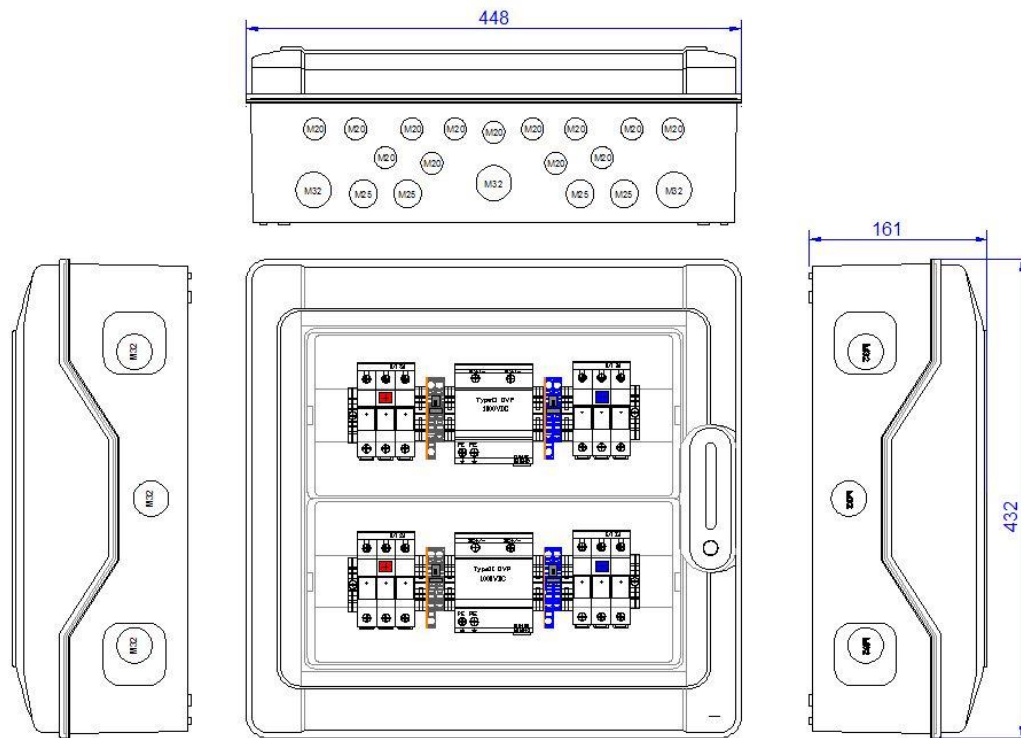
scope of delivery			
Description	order-nr.	pcs	comment
Cable Gland M20x1.5	10000737	9	
2x opening sealing insert for M20 Cable Gland	10007322	8	
Locknut M20x1.5	10000722	10	
Pressure compensation element	10001971	1	
Reducing KRM 20/12	10008652	1	
Cable Gland M25x1.5 incl. MFD 25/03/070	10011305	4	
Locknut M25x1.5	10000723	4	

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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	1000	
rated operating current I_{nA}	[ADC]	30	30	
max. number of PV-strings	[n]	3	3	
rated operating current per string I_{nc}	[ADC]	10	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 pro pole

input (for pv-generator)
cable entry

cable glands (EN 50262)	•/-	•
clamping range	[Ømm]	12x 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…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]	12x 5-6.5
PV-connectors	•/-	-
PV-connectors - manufacturer/type-designation		-

terminals

screw terminal/spring clamp		Spring
insulation stripping length	[mm]	13…15
tightening torque	[Nm]	-
appropriate conductor material	Al/Cu	Cu

wire cross section

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

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◇enwitec
electronic

general data

dimensions (WxHxD)	[mm]	448 x 432 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
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		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

spare parts

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