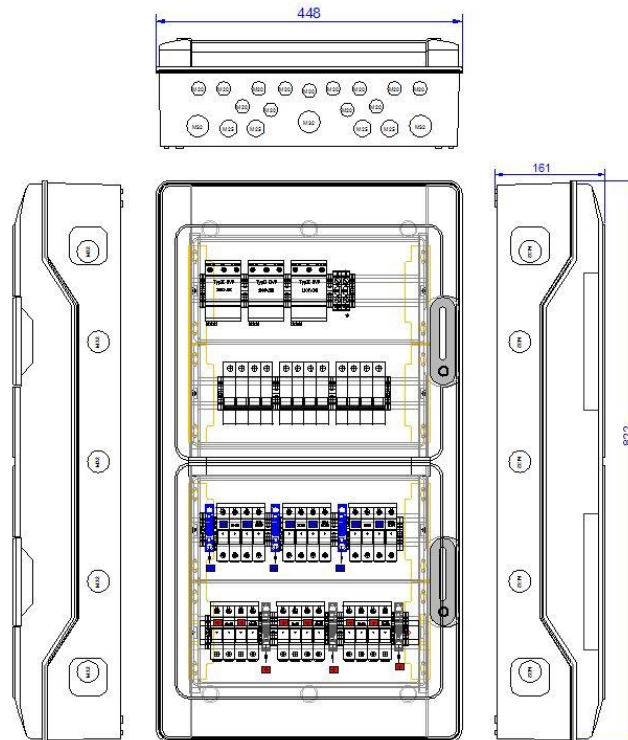


# Data sheet Rev1.0

## DC - generator junction box

enwitec-order-number	10012772
customer-article-number	
type designation	GAK-enwitec-S-1000-3x4(x2)Sxx-T50-Y-PC-1.0



scope of delivery			
description	order-nr.	pcs	comment
Cable Gland M32x1.5 incl. MFD 32/04/070	10011347	3	
Lock Nut M32x1.5	10000724	3	
Cable Gland M25x1.5 incl. MFD 25/03/070	10011305	4	
Lock Nut M25x1.5	10000723	4	
Cable Gland M20x1.5	10000737	1	
Lock Nut M20x1.5	10000722	8	
Cable Gland M16x1.5	10000736	6	
Reducer KRM 20/16	10008653	6	
Reducer KRM 20/12	10008652	1	
Pressure compensation element DAE M12x1.5	10001971	1	

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## DC - generator junction box

### technical specification

rated insulation voltage $U_i$	[VDC]	1000		
number of isolated MPP-input(s)	[n]	<b>1</b>	<b>2</b>	<b>3</b>
rated operating voltage $U_e$	[VDC]	1000	1000	1000
rated operating current $I_{nA}$	[ADC]	40	40	40
max. number of PV-strings	[n]	4	4	4
rated operating current per string $I_{nc}$	[ADC]	10	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]	-	-	-

#### load circuit breaker

thermal current $I_{th}$ at 60°C	[A]	50
utilization category	acc. DIN EN 60947-3	DC-22B
manufacturer and type designation	Noark-DC Isolator Ex9IP 4P 50A	

#### 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]	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 <sup>2</sup> ]	0,75...16	0,75...16
Cu-finely stranded without end sleeve	[mm <sup>2</sup> ]	-	-
Cu-solid or stranded	[mm <sup>2</sup> ]	1...16	1...16

#### output (for pv-inverter)

##### cable entry

cable glands (EN 50262)	•/-	•
clamping range	[Ømm]	6x 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 <sup>2</sup> ]	from 2.5
Cu-finely stranded without end sleeve	[mm <sup>2</sup> ]	0.5...25
Cu-solid or stranded	[mm <sup>2</sup> ]	0.5...16
Alu - round, solid	[mm <sup>2</sup> ]	-
Alu - round, stranded	[mm <sup>2</sup> ]	-
Alu - sector, solid	[mm <sup>2</sup> ]	-
Alu - sector, stranded	[mm <sup>2</sup> ]	-

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

# Data sheet Rev1.0

## DC - generator junction box

### general data

dimensions (WxHxD)	[mm]	448 x 822 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
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### spare parts

	order-nr.
Noark-DC Isolator Ex9IP 4P 50A	10011912
DG YPV SCI 1000 FM Kompakt (950535)	10010313
PV Protec CR 40/1000Y TD	10013645