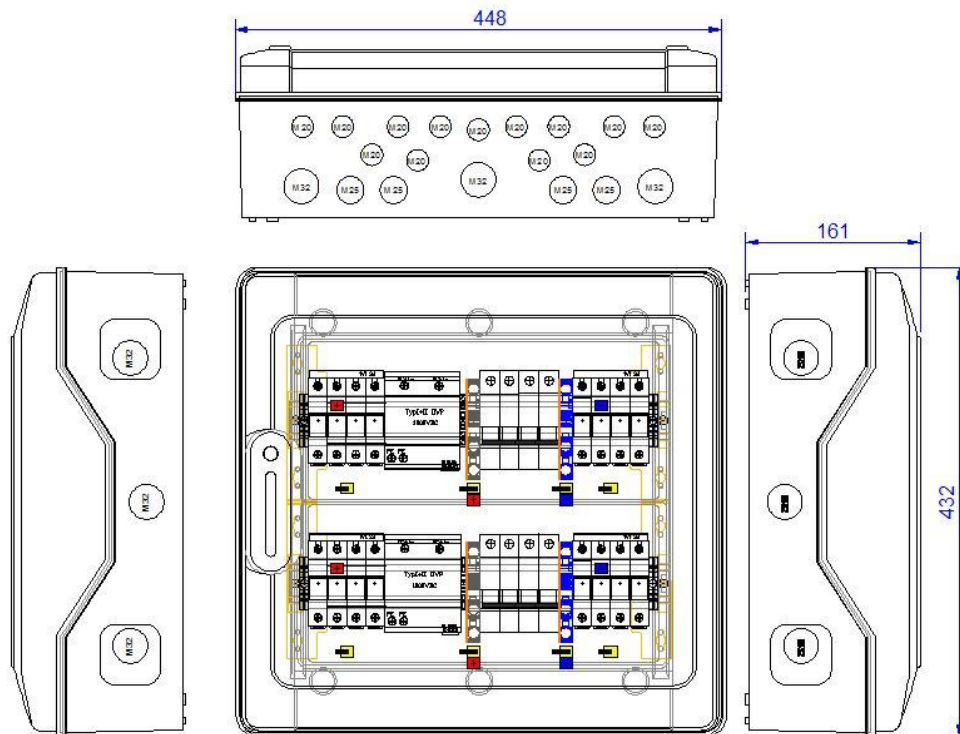


Data sheet Rev1.0

DC - generator junction box

enwitec-order-number	10012887
customer-article-number	
type designation	GAK-S-1000-2x4(x2)Sxx-T50-BC-PC-1.0



scope of delivery			
description	order-nr.	pcs	comment
Cable Gland M20x1.5	10000737	9	
Locknut M20x1.5	10000722	14	
Locknut M32x1.5	10000724	1	
Sealing insert MFD 20/20/065	10007322	8	
Cable Gland M16x1.5	10000736	4	
Cable Gland reducer KRM 20/16	10008653	4	
Cable Gland reducer KRM 20/12	10008652	1	
Pressure compensation element DAE M12x1.5	10001971	1	
Cable Gland reducer KRM 32/20	10008658	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
rated operating voltage U_e	[VDC]	1000	1000
rated operating current I_{nA}	[ADC]	40	40
max. number of PV-strings	[n]	4	4
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]	-	-

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)		1+2
max. continuous operating voltage U_{cpv}	[VDC]	1000
only type 1: impulse current max. I_{imp} 10/350 [kA]		6.25 per Pol

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		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]	4x 4.5-10
PV-connectors	•/-	-
PV-connectors - manufacturer/type-designation		-

terminals

screw terminal/spring clamp		Screw
insulation stripping length	[mm]	12
tightening torque	[Nm]	2...3.5
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]	10...35
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
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]	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
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spare parts

	order-nr.
Noark-DC Isolator Ex9IP 4P 50A	10011912
DG YPV SCI 1000 FM Kompakt (BC)	10010504
PV Protec BR 5/1000Y TD	10012614