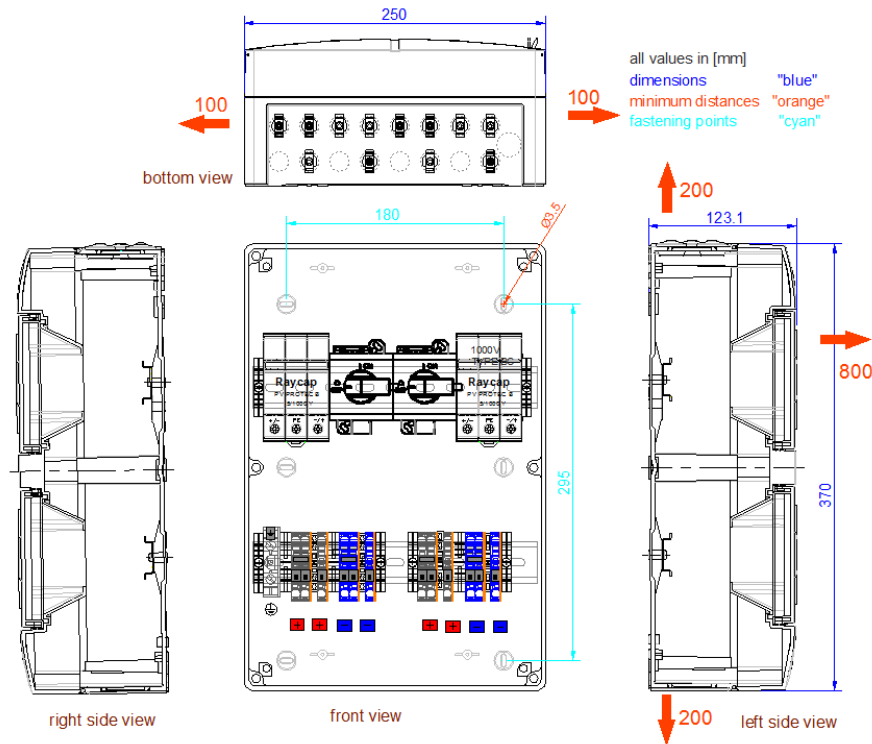


Data sheet Rev1.0

DC - generator junction box

enwitec-order-number	10012779
customer-article-number	
type designation	GAK-enwitec-S-1000-2x2R-T25-BC-PC-1.0_MC4



scope of delivery			
description	order-nr.	pcs	comment
Cable Gland M20x1.5	10000737	1	
Locknut M20x1.5	10000722	1	
Pressure compensation element	10001971	1	
Locknut M12x1.5	10001476	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
rated operating voltage U_e	[VDC]	1000	1000	
rated operating current I_{nA}	[ADC]	20	20	
max. number of PV-strings	[n]	2	2	
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]	25		
utilization category	acc. DIN EN 60947-3	DC-21B		
manufacturer and type designation		MERZ MDC1A-040-600		

surge protective device (SPD)

test category acc. EN 61643-11 (type)		I+II		
max. continuous operating voltage U_{cpv}	[VDC]	1000		
only type 1: impulse current max. I_{imp} 10/350 [kA]		5kA		

input (for pv-generator)

cable entry

cable glands (EN 50262)	•/-	-		
clamping range	[Ømm]	-		
PV-connectors	•/-	•		
PV-connectors - manufacturer/type-designation		MC PV-ADBP4-S2/6 MC PV-ADSP4-S2/6		

terminals

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

wire cross section

Cu-finely stranded with end sleeve	[mm ²]	-	-	
Cu-finely stranded without end sleeve	[mm ²]	-	-	
Cu-solid or stranded	[mm ²]	-	-	

output (for pv-inverter)

cable entry

cable glands (EN 50262)	•/-	-		
clamping range	[Ømm]	-		
PV-connectors	•/-	•		
PV-connectors - manufacturer/type-designation		MC PV-ADBP4-S2/6 MC PV-ADSP4-S2/6		

terminals

screw terminal/spring clamp		-
insulation stripping length	[mm]	-
tightening torque	[Nm]	-
appropriate conductor material	Al/Cu	-
wire cross section		
Cu-finely stranded with end sleeve	[mm ²]	-
Cu-finely stranded without end sleeve	[mm ²]	-
Cu-solid or stranded	[mm ²]	-
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]	15
Max. tightening torque	[Nm]	2.5
appropriate conductor material	Al/Cu	Cu

wire cross section

Cu-finely stranded with end sleeve	[mm ²]	4...16
Cu-finely stranded without end sleeve	[mm ²]	-
Cu-solid or stranded	[mm ²]	1.5...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]	250 x 370 x 123
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.
MERZ MDC1A-040-600	10009572
PV PROTEC BR 5/ 1000Y TD	10012614