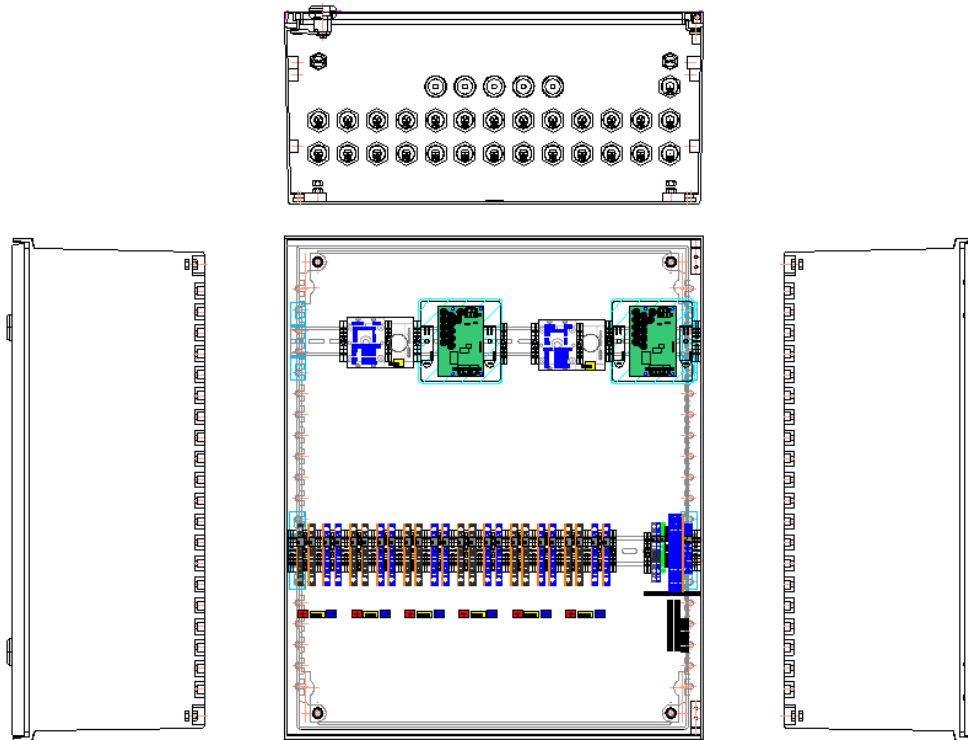


Data sheet

DC - generator junction box

enwitec-order-number	10013565
customer-article-number	
type designation	Santon-1000-6x2R-T50-X-PES-1.0



scope of delivery			
description	order-nr.	pcs	comment
PV Remote Shutdown System – General Installation manual_ Customer	10012986	1	
Enwitec FWS - Concept with santon		1	
Screw fittings and gag nipples		1 Set	
Wall mounting set		1	

Data sheet

DC - generator junction box technical specification

rated insulation voltage U_i	[VDC]	1000
number of isolated MPP-input(s)	[n]	1/2/3/4/5/6
rated operating voltage U_e	[VDC]	1000
rated operating current I_{nA}	[ADC]	20
max. number of PV-strings	[n]	2
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]	15

load circuit breaker

thermal current I_{th} at 60°C	[A]	50A/MPP
utilization category	acc. DIN EN 60947-3	DC-21B
manufacturer and type designation		Santon XC100.50..Q3A / 6-pole with undervoltage release 230VAC and automatic restart function after power stabilization

input (for pv-generator)

cable entry		
cable glands (EN 50262)	•/-	•
clamping range	[Ømm]	12x6-13
PV-connectors	•/-	-
PV-connectors - manufacturer/type-designation		-
terminals		
"+" potential / "-" potential	+plus	-minus
screw terminal/spring clamp	Feder	Feder
insulation stripping length	[mm]	13-15
tightening torque	[Nm]	-
	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]	12x6-13
PV-connectors	•/-	-
PV-connectors - manufacturer/type-designation		-
terminals		
screw terminal/spring clamp		Feder
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

Interface undervoltage release and feedback loop

cable glands (EN 50262)	•/-	•
clamping range	[Ømm]	4.5-13

terminals

screw terminal/spring clamp		Spring
insulation stripping length	[mm]	10
tightening torque	[Nm]	-
appropriate conductor material	Al/Cu	Cu

wire cross section

Cu-finely stranded with end sleeve	[mm ²]	-
Cu-finely stranded without end sleeve	[mm ²]	0.5-2.5
Cu-solid or stranded	[mm ²]	0.5-2.5

general data

dimensions (WxHxD)	[mm]	500x600x230
weight	[kg]	-
operating temperature range	[°C]	-25...+35
derating above temperature	[°C]	From 40
transport + storage temperature	[°C]	-25...50
humidity - condensing permitted	•/-	•
humidity within the range of	[%]	8...95
max. altitude above sea level NN	[m]	2000
protection class IP (EN 60529)		65
outdoor-application permitted	•/-	•
protection against electric shock (EN 61140)		II
cabinet material		Polyester
RoHS-conformity (2011/65/EU)	•/-	•
colour of cabinet		Similar to RAL 7035
way of mounting		Wall mounting
quantity of expanded clay (only ground mounting)	[l]	-
locking system		2x double bit screw cap

relevant standards

switching devices		EN 61439-1 EN 61439-2
PV power supply systems		IEC 60364-7-712

miscellaneous

customs tariff number		85371098
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