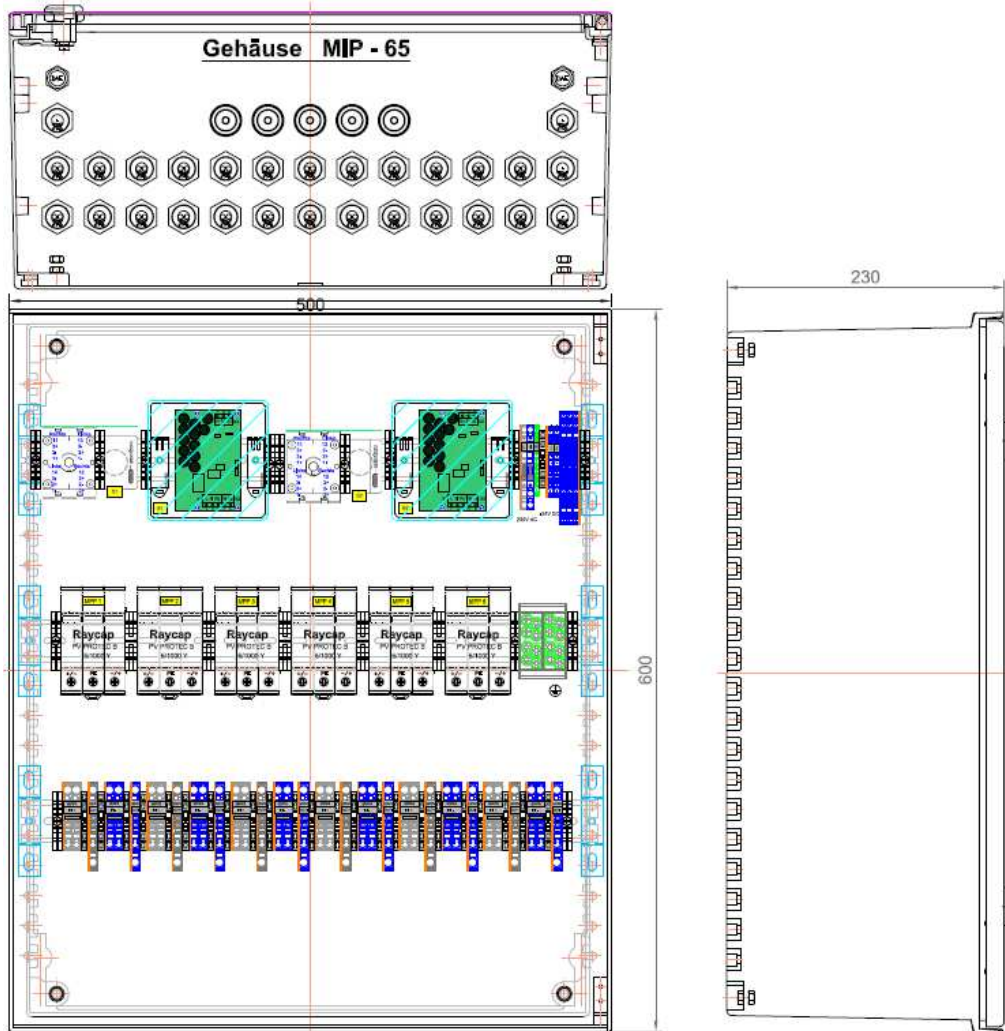


DATA SHEET

DC generator junction box

enwitec article no.	10014008
Customer article no.	
Designation	Santon-1000-6x2R-T50-BC-PES-1.0



Scope of delivery			
Designation	Article no.	Pcs	Comment
PV Remote Shutdown System-general installation instructions_CUSTOMER	10015282	1	English version
enwitec FWS concept with Santon		1	
div. screw fittings and self-sealing grommets		1 set	
wall mounting set		1	

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DC generator junction box

TECHNICAL DATA

Rated insulation voltage U_i	[VDC]	1000			Tightening torque	[Nm]		
Number of independent MPP inputs	[n]	6			Suitable conductor type			
Rated operational voltage U_e	[VDC]	1000			Al/Cu			
Rated current I_{nA}	[ADC]	20						
Max. number of PV strings	[n]	2						
Rated current per string I_{nc}	[ADC]	10						
String fuse in the "+" potential	•/-	•			Conductor cross-section (from-to)			
String fuse in the "-" potential	•/-	•			Fine copper wire with wire end ferrule	[mm ²]	from 1.5	
Fuse installed on delivery	•/-	•			Fine copper wire without wire end ferrule	[mm ²]	0.5...10	
Nominal fuse value on delivery	[A]	15			Copper solid or stranded	[mm ²]	1...10	
Load break switch					Aluminium - round/single wire	[mm ²]	-	
Thermal current I_{th} at 60°C	[A]	50A / MPP			Aluminium - round/stranded	[mm ²]	-	
Utilization category acc. to DIN EN 60947-3		DC-21B			Aluminium - sector/single wire	[mm ²]	-	
Manufacturer and type designation		Santon XC100.50..Q3A/6-pole with undervoltage release 230VAC and automatic restart function after power failure			Aluminium - sector/stranded	[mm ²]	-	
Surge protection device					Interface undervoltage release and feedback loop			
Test class according to EN 61643-11 (type)		1+2			Cable glands (EN 50262)	•/-	•	
Highest permissible continuous voltage U_{cpv} [VDC]		1000			Clamping range (from-to) [Ømm]		4.5-13	
for type 1: lightning surge current max. I_{imp} 10/350 [kA]		5 per pole			Connection/Terminal			
Input (to PV generator)					Screw terminal/Spring-loaded terminal		Spring	
Cable entries					Stripping length [mm]		10	
Cable glands (EN 50262)	•/-	•			Tightening torque [Nm]		-	
Clamping range (from-to)	[Ømm]	12x 6-13			Suitable conductor type		Cu	
PV connector	•/-	-			Al/Cu			
PV connector - manufacturer and type		-			Conductor cross-section (from-to)			
Connections/Terminals					Fine copper wire with wire end ferrule	[mm ²]	-	
"+" potential / "-" potential		+PLUS	-MINUS		Fine copper wire without wire end ferrule	[mm ²]	0.5-2.5	
Screw terminal/Spring-loaded terminal		Spring	Spring		Copper solid or stranded	[mm ²]	0.5-2.5	
Stripping length	[mm]	13-15	13-15		GENERAL			
Tightening torque	[Nm]	-	-		Dimensions (WxHxD) [mm]		500x600x230	
		Cu	Cu		Weight [kg]		-	
Conductor cross-section (from-to)					Operating temperature range [°C]		-25.. +35	
Fine copper wire with wire end ferrule	[mm ²]	0.75...10	0.75...10		Derating from operating temperature [°C]		from 40	
Fine copper wire without wire end ferrule	[mm ²]	-	-		Temperature - Transport/Storage [°C]		-25..50	
Copper solid or stranded	[mm ²]	1...16	1...16		Condensing humidity permitted	•/-	•	
Output (to PV inverter)					Humidity - permissible range [%]		8..95	
Cable entries					Max. installation altitude above sea level [m]		2000	
Cable glands (EN 50262)	•/-	•			Protection class IP	(EN)	65	
Clamping range (from-to)	[Ømm]	12x 6-13						
PV connector	•/-	-						
PV connector - manufacturer and type		-						
Connections/Terminals								
Screw terminal/Spring-loaded terminal		Spring						
Stripping length	[mm]	13-15						

DATA SHEET

DC generator junction box

60529)	
Outdoor-suitability •/-	•
Protection class (EN 61140)	II
Housing material	GRP housing
RoHS compliant (2011/65/EU)	•
Housing paint	Similar to RAL 7035
Mounting type	Wall mounting
Quantity of expanded clay (only ground mounting) [l]	-
Type of closure	2x double-bit screw



	cap
<u>Norms/Standards</u>	
Switchgear assembly	EN 61439-1 EN 61439-2
PV power supply systems	DIN IEC 60364-7-712
<u>Miscellaneous</u>	
Customs number	85371098