

DATA SHEET

ITEM NO. 10014856

Santon Load Disconnecter "Fireman's Switch"

Santon-1000-10x2R-T50-BC-PES-1.2

All values in [mm]

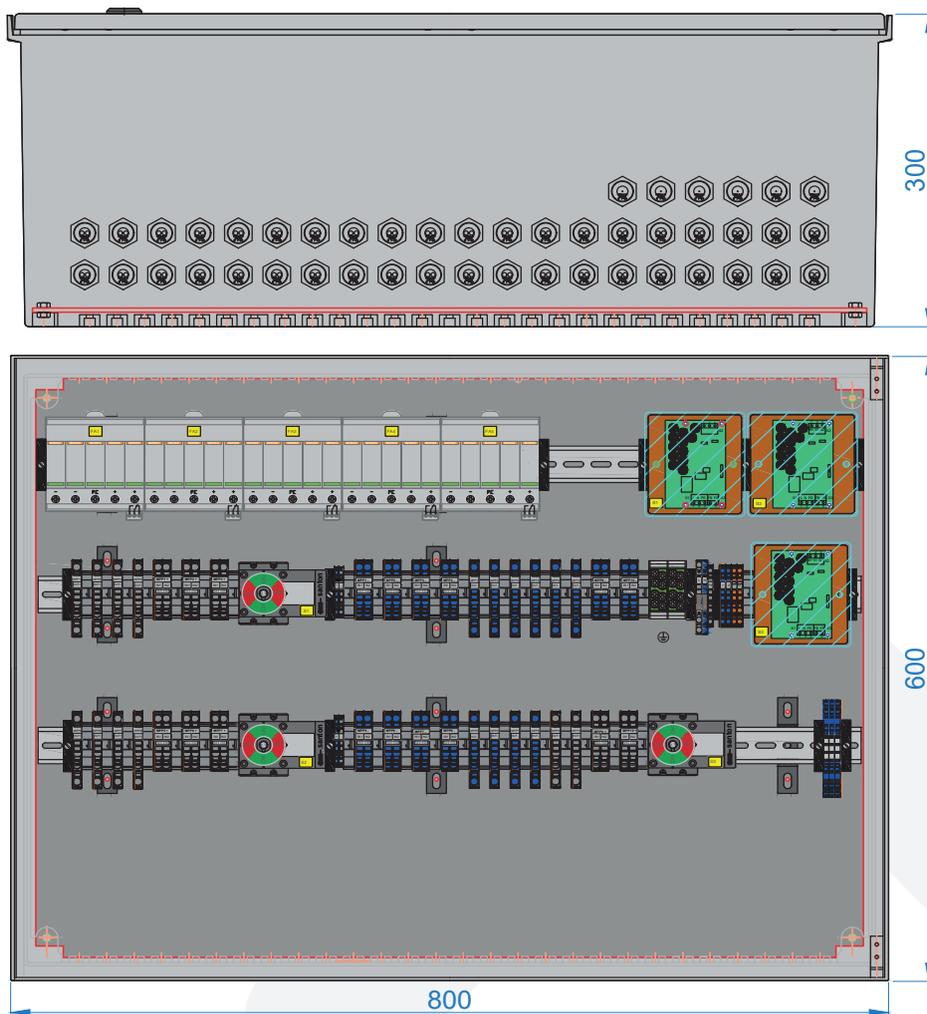
Dimensions "blue"

Fastening points "orange"

Internal arrangement and components may differ depending on the variant!

Minimum distances

above	200
below	200
lateral	100
front	800



SCOPE OF DELIVERY

Quantity	Designation
1	Santon Load disconnecter "Fireman's switch"
1	General installation instructions PV-RSS
1	Installation instructions GAK-Standard
1	enwitec EWS concept with Santon
1	Quick guide to commissioning FWS
1	Circuit diagram

Quantity	Designation
1	Schematic UPS board
1 set	Wall mounting brackets
46	Cable gland M20 incl. locknut
40	Multiple seal MFD
6	Diaphragm insertion EMT 20

Status: (a)

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TECHNICAL DATA

NOMINAL VALUES		• applicable / - not applicable
Rated insulation voltage U_i	[VDC]	1000
Rated operating voltage U_e	[VDC]	1000
Rated current I_{nA} (ΣI_{SCSTC})	[ACD]	320
Rated current I_{nA}^* ($=\Sigma I_{SCSTC} \times 1.25$)	[ACD]	400
Number of independent MPP inputs		10
Max. Number of PV strings IN/OUT		20/20
Parallel connected inputs/outputs		2

PRO STRANG		
Rated current I_{nc} ($=I_{SCSTC}$)	[ADC]	16
Design current I_{SCMAX}^* ($=I_{SCSTC} \times 1.25$)	[ADC]	20

SURGE PROTECTION DEVICE		
Test class according to EN 61643-11 (type)		I+II
Highest permissible continuous voltage U_{cpv}	[VDC]	1000
For type 1: Lightning impulse current max. I_{imp} 10/350	[kA]	5
Monitoring capability		NC contacts connected in series

SWITCH-DISCONNECTOR		
Thermal current I_{th} at 60°C	[A]	50/MPP
Utilisation category according to DIN EN 60947-3		DC-21B
Manufacturer and type designation		2 x Santon XC100.50..Q3A/8pole 1 x 2 x Santon XC100.50..Q3A/4pole with undervoltage release 230 VAC and automatic Restart function after power failure

* the design current I_{SCMAX} according to VDE 0100-712:2016-10 includes the factor 1.25 for ISC STC of the PV module or PV string.

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TECHNICAL DATA

INPUT (TO THE PV GENERATOR)		• applicable / - not applicable
Cable entries		
Fittings (EN 62444)		M20 + MFD
Clamping range (from - to)	[Ømm]	20 x 5 - 6,5
Connections		
Connection type		Spring clamp
Stripping length	[mm]	13 - 15
Tightening torque	[Nm]	-
Conductor cross-section (from - to)		
Fine copper wire with ferrule	[mm²]	0,5 - 6
Fine-stranded copper	[mm²]	0,5 - 10
Cu-stranded	[mm²]	0,5 - 10

OUTPUT (TO THE PV INVERTER)		
Cable entries		
Fittings (EN 62444)		M20 + MFD
Clamping range (from - to)	[Ømm]	20 x 5 - 6,5
Connections		
Connection type		Spring clamp
Stripping length	[mm]	13 - 15
Tightening torque	[Nm]	-
Conductor cross-section (from - to)		
Fine copper wire with ferrule	[mm²]	0,5 - 6
Fine-stranded copper	[mm²]	0,5 - 10
Cu-stranded	[mm²]	0,5 - 10

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TECHNICAL DATA

EARTH CONNECTION		• applicable / - not applicable
Cable entries		
Fittings (EN 62444)		M20
Clamping range (from - to)	[Ømm]	6 - 13
Connections		
Connection type		Screw terminal
Stripping length	[mm]	19
Tightening torque	[Nm]	2,5
Conductor cross-section (from - to)		
Fine copper wire with ferrule	[mm²]	1,5 - 16
Fine-stranded copper	[mm²]	-
Solid or stranded copper wire	[mm²]	2,5 - 25

COMMUNICATION		
Interface available		•
Interface type		Undervoltage release and feedback loop
Cable entries		
Fittings (EN 62444)		M20
Clamping range (from - to)	[Ømm]	6 - 13
Connections		
Connection type		Spring clamp
Stripping length	[mm]	10 - 12
Tightening torque	[Nm]	-
Conductor cross-section (from - to)		
Fine copper wire with ferrule	[mm²]	0,25 - 2,5
Fine-stranded copper	[mm²]	0,25 - 4
Cu-stranded	[mm²]	0,25 - 4

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GENERAL		• applicable / - not applicable
Dimensions WxHxD (without screw connections)	[mm]	800 x 600 x 300
Weight, approx.	[kg]	32
Operating temperature range	[°C]	-20...+35
Temperature - transport/storage (24 hours 70°C)	[°C]	-20...+35
Humidity - condensing permitted		•
Humidity - permissible range	[%]	5...95
max. installation height above N.N.	[m]	2000
Protection class IP (EN 60529) _{ta} = 40°C		65
Outdoor suitability (protected area)		•
Protection class (EN 61140)		II
Housing material		Polyester
RoHS-compliant (2011/65/EU)		•
Housing colour		similar to RAL 7035
Lid		Hinged door
Mounting type		Wall mounting
Closure type		Double-bit closure
OTHER		
Customs tariff number		85371098

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Scherrwies 2 | 84329 Wurmanssquick
info@enwitec.eu

EC DECLARATION OF CONFORMITY

The product, designation: Santon-1000-10x2R-2xT50-BC-PES-1.2
article number: 10014856
manufacturer: enwitec electronic GmbH
Scherrwies 2
84329 Rogglfing
description: Santon Load Disconnecter „Fireman's Switch“

to which this declaration relates, is in conformity to the following standards or normative documents:

EN 61439-1	Low-voltage switchgear and controlgear assemblies
EN 61439-2	Power switchgear and controlgear assemblies
EN 6205-3 supplement 5	Lightning and surge protection for PV power supply systems
IEC 60364-7-712	Solar photovoltaic (PV) power supply systems

and is in accordance with the provisions of the following EC-directives:

Low-voltage directive 2014/35/EU
Restriction of Hazardous Substances Directive 2011/65/EU (RoHS)

Year of affixing CE-marking: 2020
Date of issue: 18.03.2020

enwitec electronic GmbH

Name / Signature

Johann Wimmer
CEO

Status: (a)

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www.enwitec.eu

10014856_GB_DAT_Santon-1000-10x2R-T50-BC-PES-1.2 (a)

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