

Art.Nr. 10014230

BATTERY-BACKUP-DISTRIBUTION | 3PH\_SMA.SI\_BBDAP\_150KVA\_3PH\_INT.HM\_DACH

enwitec electronic GmbH  
 Scherrwies 2 | 84329 Wurmansquick  
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Type designation	Battery-Backup-Distribution 3PH incl. SMA Home Manager 2.0
Application	Battery-Backup Function - SMA „Flexible Storage System“
Region	Germany, Switzerland
Battery-inverter	Sunny Island 4.4M-12 from firmware-version 1.00.xx.R Sunny Island 6.0H-12 from firmware-version 1.00.xx.R Sunny Island 8.0H-12 from firmware-version 1.00.xx.R
Home Manager	HM-20 from firmware-version 2.00.00.R
Net shape	TT or TN-S system Sunny Island feed in: 3 phase (=1 Cluster)

All values in [mm]

Dimensions

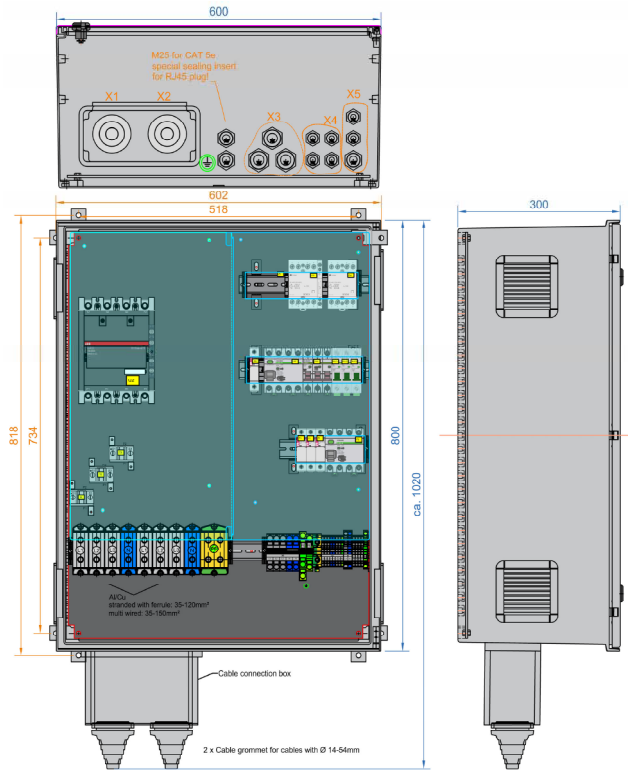
Fastening points

„blue“  
 „orange“

Inner construction as well as choice of components may differ within the variants!

Minimum distances

top	200
bottom	400
lateral	200
front	1200



## SCOPE OF DELIVERY

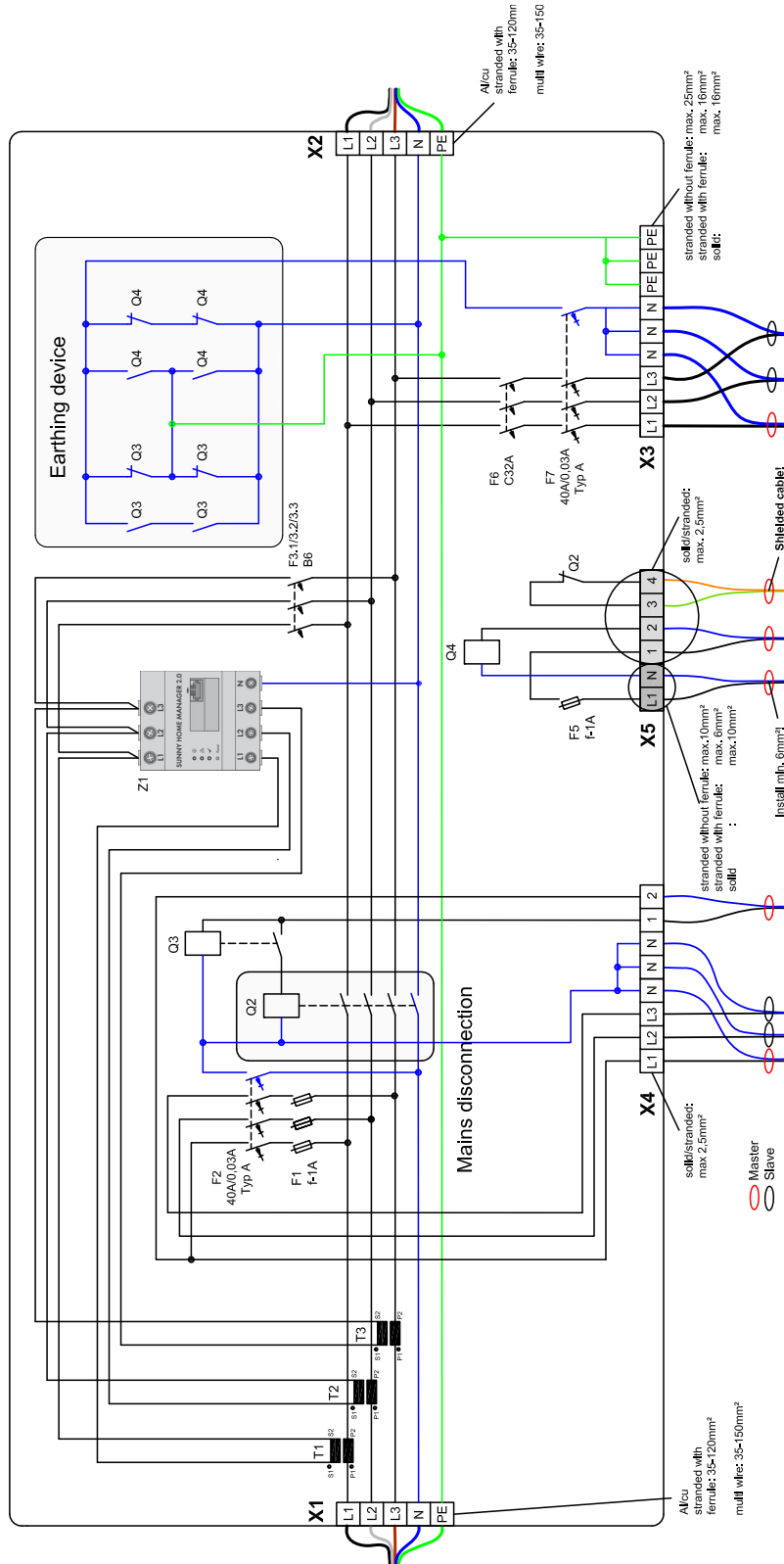
Quantity	Designation	Quantity	Designation
1	Installation instructions standard SMA-Sunny Island	3	Locknut M25
1	Bracket for wall mounting	6	Locknut M20
2	Cable entry M63	1	Special sealing insert M25
3	Cable gland M32	1	Ferrule-fuse 10x38mm
3	Cable gland M25	1	Accessory pack SMA Home Manager
6	Cable gland M20	1	Cable connection box
3	Locknut M32		

Status: May 2024

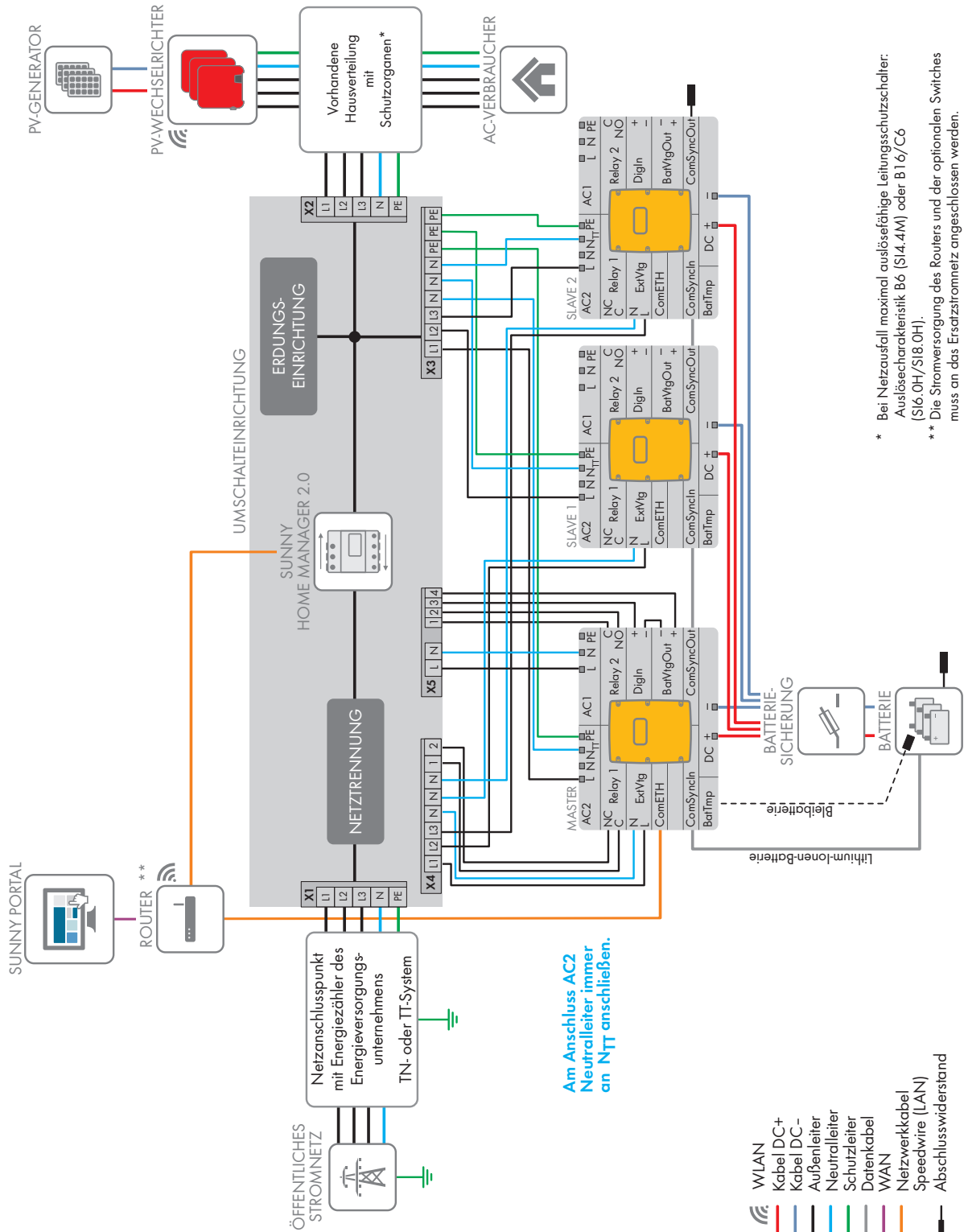
10014230\_datasheet\_3PH\_SMA.SI\_BBDAP\_150KVA\_3PH\_INT.HM\_DACH\_2024\_05\_07

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CIRCUIT DIAGRAM



ORIGINAL CIRCUITRY OVERVIEW SMA



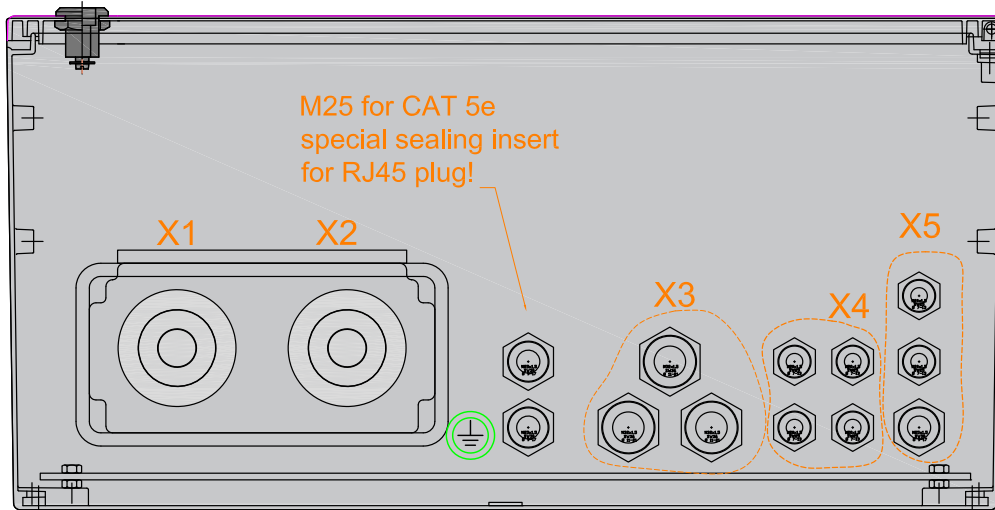
\* Bei Netzausfall maximal auslösfähige Leitungsschutzschalter:  
Auslösecharakteristik B6 (S14.4M) oder B16/C6 (S16.0H/S18.0H).  
 \*\* Die Stromversorgung des Routers und der optionalen Switches muss an das Ersatzstromnetz angeschlossen werden.

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## CABLE ENTRY



Terminal block	Size (metrical)	Clamping range [mm]	Wire type	Cross section [mm <sup>2</sup> ]	Stripping length [mm]	Ferrule
X1, X2	Cable entry M63	14 - 54	stranded multi wired	120 150	24	✓ ✓
X1 - PE	M25	9 - 17	stranded multi wired	120 150	24	✓ ✓
X3	M32	13 - 21	solid	16	18 - 20	-
			stranded stranded	25 16		✓
X4	M20	6 - 13	solid	2,5	8 - 9	-
			stranded	2,5		-
			stranded	2,5		✓
X5 (L1/N/PE)	M25	9 - 17	solid	10	13 - 15	-
			stranded	10		-
			fstranded	2,5		✓
X5 (1/2/3/4)	M20	6 - 13	solid	2,5	8 - 9	-
			stranded	2,5		-
			stranded	2,5		✓

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## GENERAL DATA

NOMINAL VALUES (Grid connection)			• applicable / - not applicable
Rated insulation voltage AC	[V]		3PH - 230/400
Rated operating voltage	[V]		400
Operating frequency	[Hz]		50/60+/-5%
Max. prospective short circuit current	[kA]		10
Permitted grid structure			TT/TN-S
Max. value of pre-fuses	[A]		250
Max. thermal power	[kW]		150
Standby-loss, ca.	[W]		15

## CIRCUIT BREAKERS AND FUSES

F1	Ferrule-fuse 10x38mm	[A]	1 - fast
F2	RCD (residual current protective device)	[A]	Type A / 40 - 0,03
F5	Ferrule-fuse 10x38mm	[A]	1 - fast
F6	MCB (circuit breaker)	[A]	C32
F7	RCD (residual current protective device)	[A]	Type A / 40 - 0,03

## CONTACTORS (IEC/EN 61095; IEC/EN60947-1; IEC 60947-5-1)

Q2	Grid disconnection	AC1 [A] AC3 [A]	250 ( $\leq 60^\circ\text{C}$ ) 190 ( $\leq 60^\circ\text{C}$ )
Q3	Grounding device I	AC1 [A]	40
Q4	Grounding device II	AC1 [A]	40
	Control voltage	[V]	230
	Hum-free	•/-	-

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## TECNICAL DATA

GENERAL DATA		• applicable / - not applicable
Dimensions WxHxD (without pedestal)	[mm]	600 x 800 x 300
Weight, ca.	[kg]	35,5
Operating temperature range	[°C]	-25...+40
Temperature - transport/storage (24 h. 70°C)	[°C]	-25...+55
Humidity - condensing allowed	•/-	-
Humidity - permitted range	[%]	5...95
Max. altitude above sea level N.N.	[m]	2000
Protection class IP (EN 60529)		54
outdoor-application permitted	•/-	-
Installation type		indoor area
Protection against electric shock (EN 61140)		II
Case material		GFK
RoHS-conformity (2011/65/EU)	•/-	•
Case colour		similar RAL 7035
Cover		similar RAL 7035
Mounting method		wall mounting
Locking system		double-bit closure
MISCELLANEOUS		
Customs tariff number		85371098

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## EC DECLARATION OF CONFORMITY

The product, desogmatopm: **3PH\_SMA.SI\_BBDAP\_150KVA\_3PH\_INT.HM\_DACH**

article number: **10014230**

manufacturer: **enwitec electronic GmbH  
Scherrwies 2  
84329 Rogglfing**

description: **Battery-Backup-Distribution SMA Flexible Storage System**

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 61439-3	Installation distributor for non-professional operation

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: **2019**  
Date of issue: **28.11.2019**

enwitec electronic GmbH



Name / Signature

Johann Wimmer  
CEO