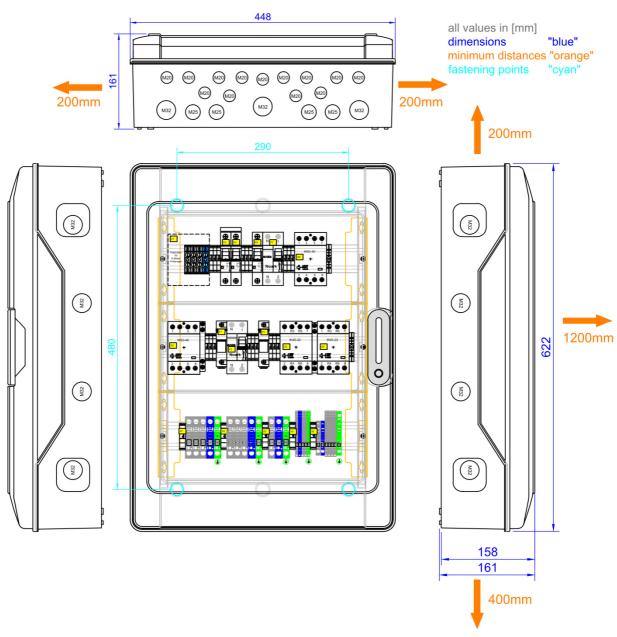


3PH-Battery-Backup-Distribution for 1x Sunny Island

enwitec-order-number	10012549
Customer-article-number	
Type designation	Battery-Backup-Distribution 1PH - <u>prepared for retrofitting</u> SMA - Energy Meter/Home Manager 2.0
Match code	3PH_IPC_SMA.SI_BBDAP_20KW_1PH_PREP_DACH_1.1
Application	Standby power - SMA "Flexible Storage System"
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
Grid structure	TT or TN-S system Sunny Island feed in: 1 phase! (=1 x Sunny Island)

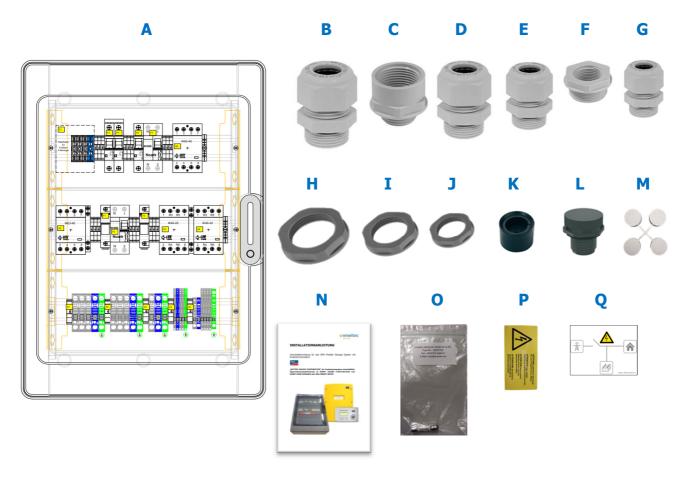


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3PH-Battery-Backup-Distribution for 1x Sunny Island

SCOPE OF DELIVERY



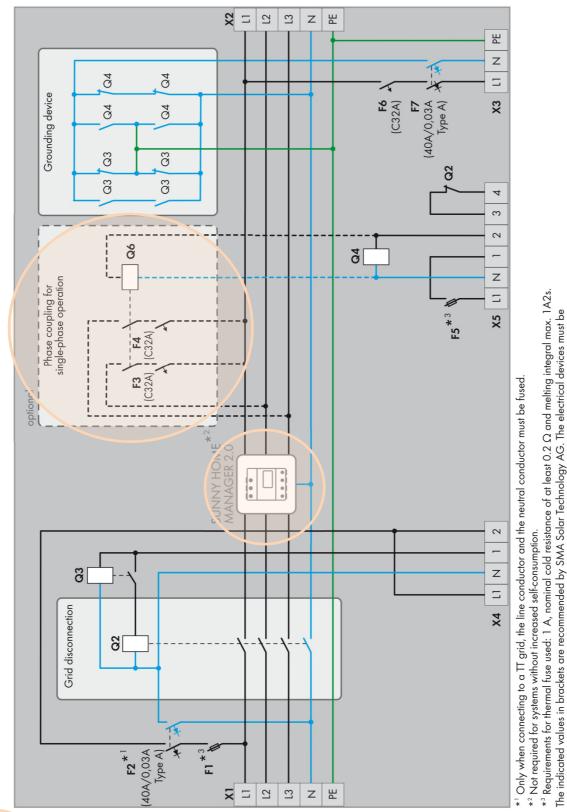
Position	Quantity	Designation	
A	1	Battery Backup Distribution 1PH - 10012549	
В	2	Cable gland M40 x 1,5 (clamping range Ø 16 – 28mm)	
С	2	Enlargement adaptor from M32 to M40	
D	3	Cable gland M32 x 1,5 (clamping range Ø 13 – 21mm)	
Е	2	Cable gland M25 x 1,5 (clamping range Ø 9 – 17mm)	
F	1	Reduction adaptor from M20 to M12 (for pressure equalization valve)	
G	5	Cable gland M20 x 1,5 (clamping range Ø 6 – 13mm)	
Н	3	Locknut M32	
I	2	Locknut M25	
J	6	Locknut M20	
K	1	Special sealing insert for CAT 5e cable (M25)	
L	1	Pressure equalization element	
М	1	Cover caps for fastening screws	
N	1	Installation manual 10010371	
0	3	Ferrule-fuse 10x38mm (1A - fast; Littelfuse #KLKD or Bussmann #KTK) 2 pieces in the fuse holders; 1 piece in the accessories kit (spare part)	
Р	1	Warning label "high voltage"	
Q	1	Label – image "with reference to an island mode system ability	

electronic

designed in accordance with the locally applicable standards and directives

3PH-Battery-Backup-Distribution for 1x Sunny Island

ORIGINAL CIRCUIT DIAGRAM SMA

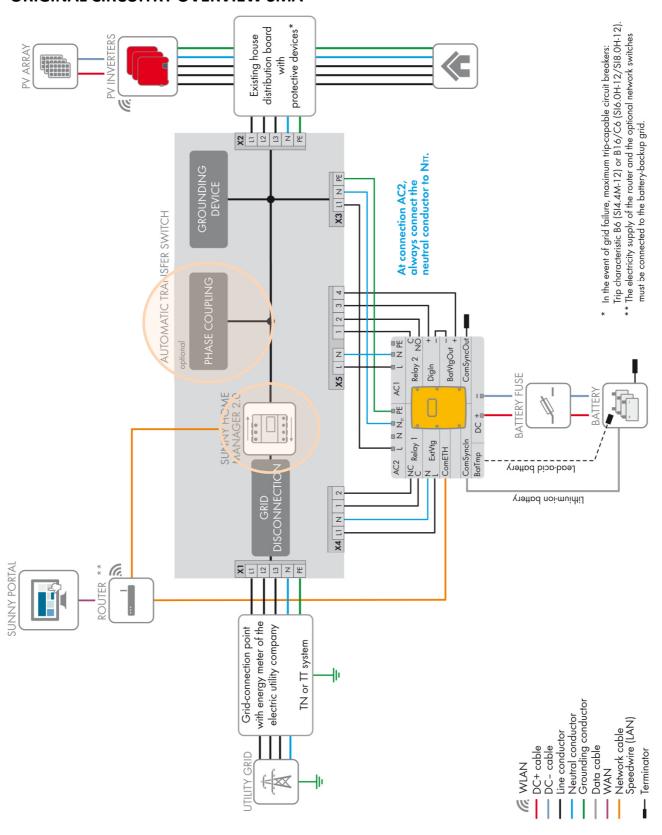






3PH-Battery-Backup-Distribution for 1x Sunny Island

ORIGINAL CIRCUITRY OVERVIEW SMA





10012549: Phase coupling inclusive; prepared for retrofitting SMA - Energy Meter/Home Manager 2.0

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3PH-Battery-Backup-Distribution for 1x Sunny Island

TECHNICAL DATA

Rated operating voltage AC	[V]	3PH -230/400
Rated insulation 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]	63 A
Max. thermal power	[kW]	20
Standby-loss	[W]	ca. 15

Circuit breakers and fuses

F1 Ferrule fuse 10x38mm	1A fast
F2 RCD (residual current protective device)	Type A /40A-0,03A
F3 MCB (circuit breaker - "C"-characteristic)	32A
F4 MCB (circuit breaker - "C"-characteristic)	32A
F5 Ferrule fuse 10x38mm	1A fast
F6 MCB (circuit breaker - "C"-characteristic)	32A
F7 RCD (residual current protective device)	Tyne A/40A-0 03A

Contactors

IEC/EN 61095; IEC/EN60947-1; IEC 60947-5-1		
Q2 "grid disconnection"	AC1 [A]	63
Q3 "grounding device I"	AC1 [A]	40
Q4 "grounding device II"	AC1 [A]	40
Q6 "phase coupling"	AC1 [A]	63
Control voltage		230V AC/DC
Hum-free		yes

Connections/terminals (spring-loaded terminals)

		· · · · · · · · · · · · · · · · · · ·		
Terminal block	Wire type	Cross section [mm²] max.	Stripping length [mm]	Ferrule
X1/X2/X3	solid stranded stranded	16 25 16	18-20	- - yes
X4	solid stranded stranded	2,5 2,5 2,5	8-9	- - yes
X5 (L1/N/PE)	solid stranded stranded	10 10 6	13-15	- - yes
X5 (1/2/3/4)	solid stranded stranded	2,5 2,5 2,5	8-9	- - yes

Cable glands

Terminal block	Size (metrical)	Clamping range [mm]
X1	M32/M40	13-21/16-28
X1 PE	M20	6-13
X2	M32/M40	13-21/16-28
Х3	M32	13-21
X4	M20	6-13
X5 "L1/N/PE"	M25	9-17
X5 "1/2/3/4"	M20	6-13



Consider installation manual!

General data

<u>General data</u>		
Dimensions (WxHxD)	[mm]	448x622x161
Weight	[kg]	11,5
Operating temperature range	[°C]	-25+40
Temperature - transport/storage	e [°C]	-25+55
Temporary max. 24 hours	[°C]	70
Humidity-condensing allowed	•/-	-
Humidity – permitted range [%]		5 95
max. altitude above sea level	[m]	2000
Protection class IP ((EN 60529)	65
Outdoor-application permitted •/-		-
Installation type	Indoor area	
Protection against electric shock (EN 61140)		П
Case material		Polycarbonate
RoHS-conformity (20)11/65/EU)	•
Colour of case		similar RAL7046
Way of mounting		wall mounting
cover		transparent
Locking system		without tool
Relevant standards		
Switching devices "distribution boards – operated I people" (DBO)	by ordinary	EN 61439-1 EN 61439-2 EN 61439-3
Miscellaneous		
Customer tariff number		85371098