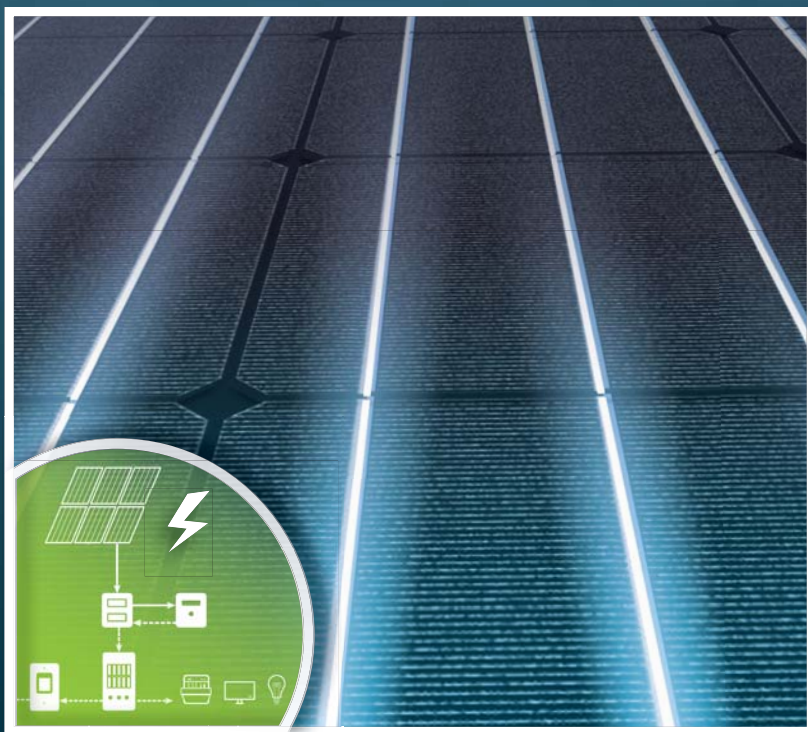


BRANCHEMENTS ÉLECTRIQUES

NOTICE D'INSTALLATION

MANUAL - ISTRUZIONI - ANLEITUNG - INSTRUÇÕES - INSTRUCTIES



V-SYS

R-VOLT

**R-VOLT
PLUS**



..... 7



..... 8



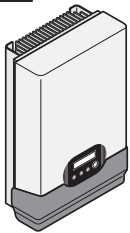
..... 9



..... 9



1



1k / 1.5k / 2k / 3k / 4k 10



..... 11

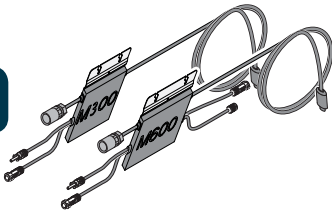


..... 12

EXAMPLE - EXAMPLE - BEISPIEL
VOORBEELD - ESEMPIO - EXEMPLO

..... 14

2



M300 / M600 18



..... 22



..... 24



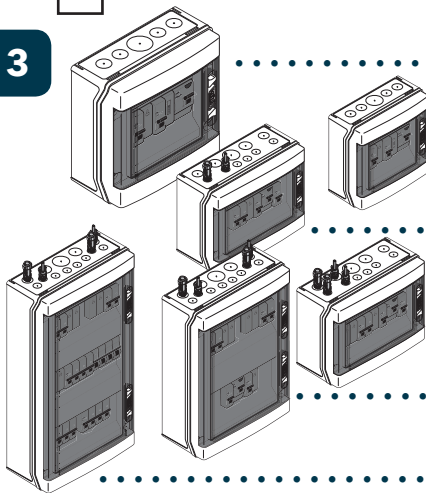
..... 26

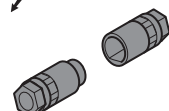
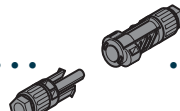


..... 28

EXAMPLE - EXAMPLE - BEISPIEL
VOORBEELD - ESEMPIO - EXEMPLO

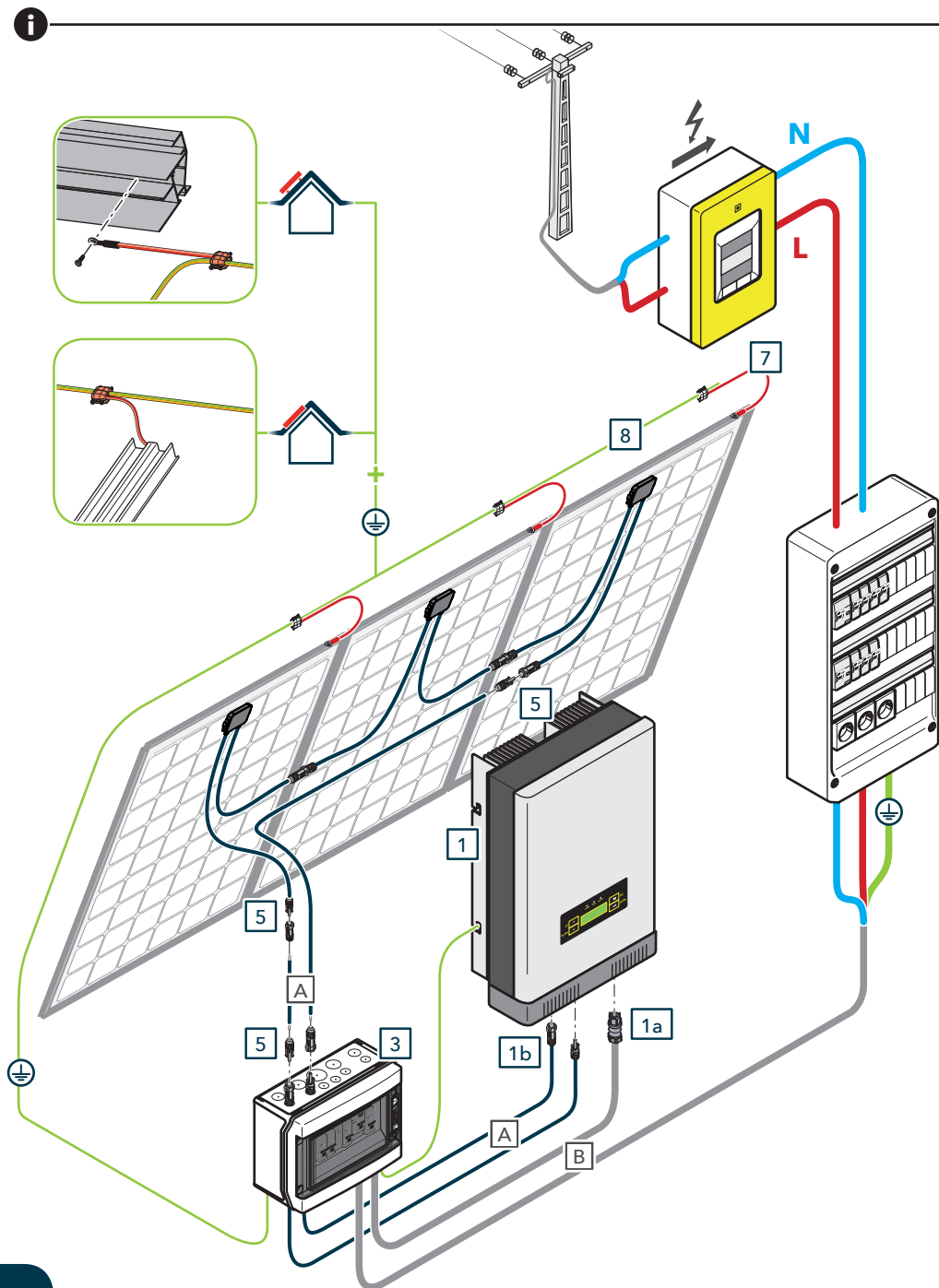
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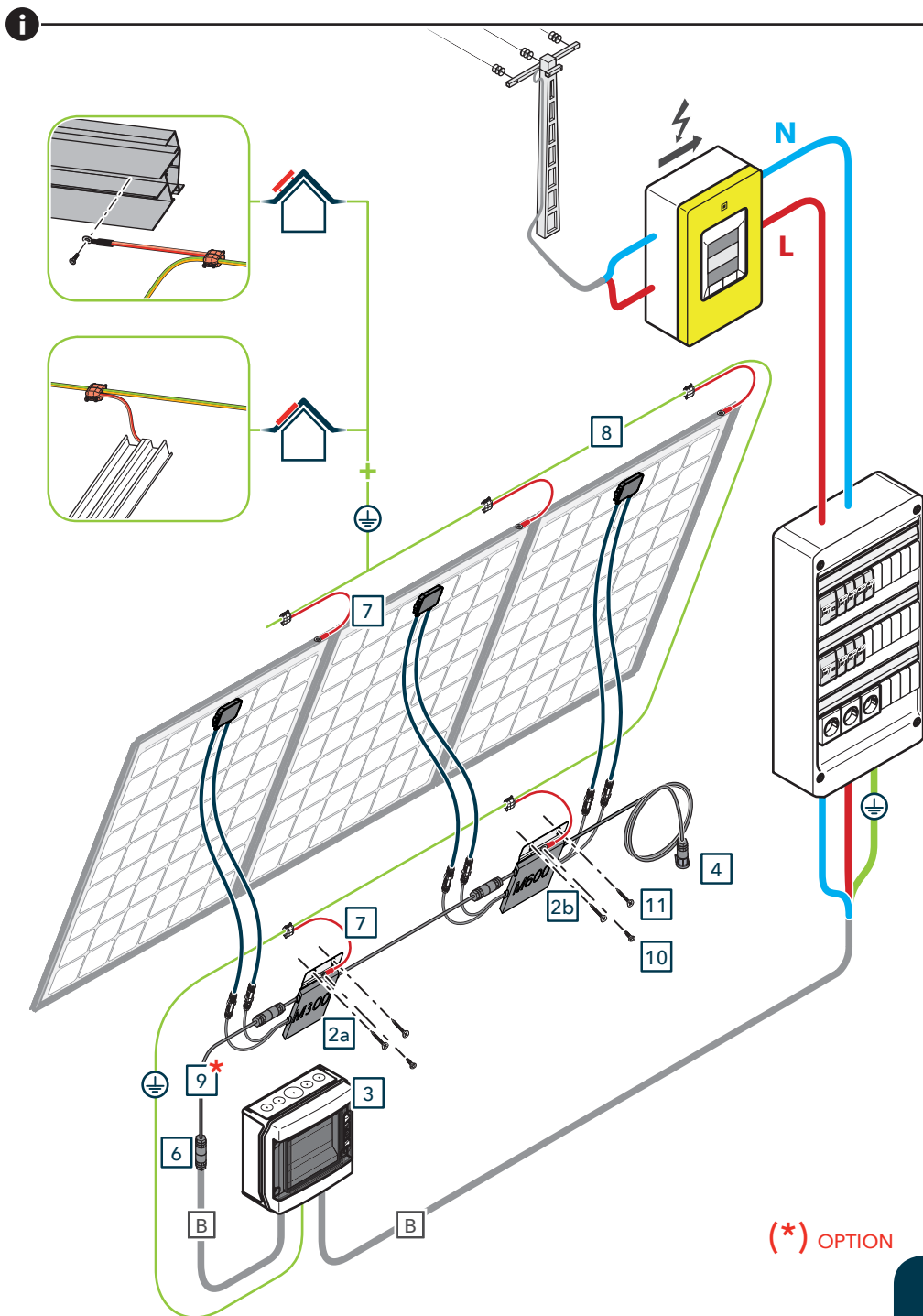
	AC/DC	
3		
	E052	34
	E053	35
	E042	36
	E054	37
	E055	38
		40

4		AC	42
5		DC	43
6			44
i	     		45

 Option - Option - Option - Optie - Opzione - Opções

SMART-R / SMART-AIR	EL09	MONO	46
	EL13	TRI - TRI	46
	EL13	MONO - TRI	47
	EL13	TRI - MONO	47





(*) OPTION



- 1 Onduleur Solaire
Solar inverter
Solar-Wechselrichter
Fotovoltaïsch omzetter
Convertitore solare
Fotovoltaico inversor

MONO

- 3 Boîtier de protection
Protective case
Schutzgehäuse
Bescherming behuizing
Cassa di protezione
Caixa de proteção

- 4 Bouchon - Cap - Stopfen
Plug - Tappo - Tampão

- 5 Connecteur AC
AC connector
AC Steckverbinder
AC Stekker
Connettore AC
Conector AC

- 6 Connecteur DC
DC connector
DC Steckverbinder
DC Stekker
Connettore DC
Conector DC

- 10 Vis autoforeuse
Self tapping screws
Bohrschrauben
Boorschroeven
Viti auto perforanti
Parafusos auto de perfuração

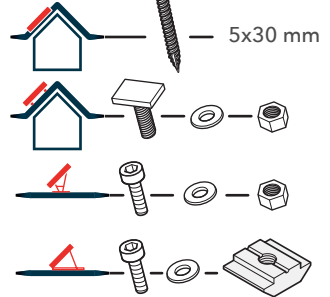


- 12 Onduleur Solaire
Solar inverter
Solar-Wechselrichter
Fotovoltaïsch omzetter
Convertitore solare
Fotovoltaico inversor

TRI

- 2 Micro-onduleur Solaire
Solar micro inverter
Sonnenmikrowechselrichter
Sonnenmikrowechselrichter
Micro-convertitore solare
Fotovoltaico micro-inversor

- 11 Vis - Screw
Schroeven
Schrauben
Viti - Parafusos



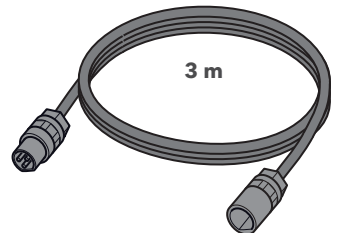
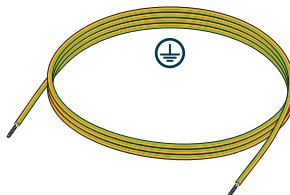
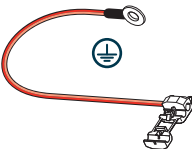
- 7 Câble de terre
Earthing cable
Erdungskabel
Aardingskabelbundel
Cavo di terra
Cabo ligação a massa

- 8 Câble de terre
Earthing cable
Erdungskabel
Aardingskabelbundel
Cavo di terra
Cabo ligação a massa

- 9 Câble AC
AC cable
AC kabel
AC kabel
Cavo AC
Cabo AC

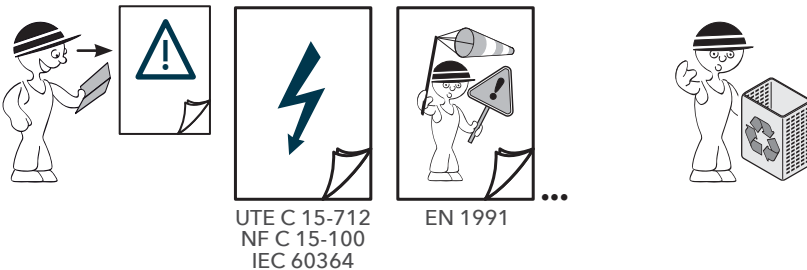
E107

(*) OPTION





- FR - L'installation et la première mise en fonctionnement de l'appareil doivent être effectuées par un professionnel qualifié uniquement. Ce dernier est responsable de la conformité de l'installation et de la mise en fonctionnement selon la réglementation en vigueur.
- EN - The installation and commissioning of the unit must be performed only by a qualified professional. The latter is responsible for the compliance of the installation in accordance with the relevant regulations.
- DE - Das Gerät darf nur von einem qualifizierten Techniker installiert werden. Welches ist auch verantwortlich für die fachgerechte Installation und Inbetriebnahme
- NL - Het toestel mag enkel door een erkende technicus geïnstalleerd worden. Die is ook verantwoordelijk voor de deskundige installatie en ingebruikneming.
- IT - L'installazione dell'apparecchio deve essere eseguita esclusivamente da un tecnico abilitato a norma di legge. Questi si assume anche la responsabilità per l'installazione, la regolazione e la messa in servizio conformi alle norme.
- PT - Estes dispositivos devem ser instalados somente por um instalador autorizado responsável pelo cumprimento de todas as instruções, normas e orientações.





← mm →

millimètre
millimeter
Millimeter
millimeter
millimetro
milímetro

1 2 ...

étapes
steps
Schritte
stappen
tappe
fases

1 2 3 4 ...

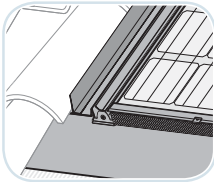
sous-étapes
sub-steps
Unterchritte
substappen
sotto tappe
debaixo de fases

1 2 3 4 ...

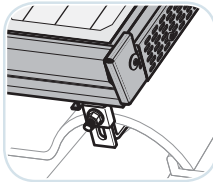
ordre de montage
mounting order
steigende Ordnung
bevestiging bestelling
ordine che monta
ordem montando



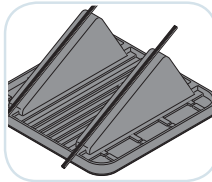
Intégré
In Roof



Sur-toiture
On Top



Sur toit terrasse
Flat Top



Au sol
On Floor



Autoconsommation
self-consumption

Eigenverbrauch
eigen verbruik
autoconsumo
autoconsumo



Revente totale
Total resale

Totalweiterverkauf
Totale wederverkoop prijs
Rivendita totale
Revenda total



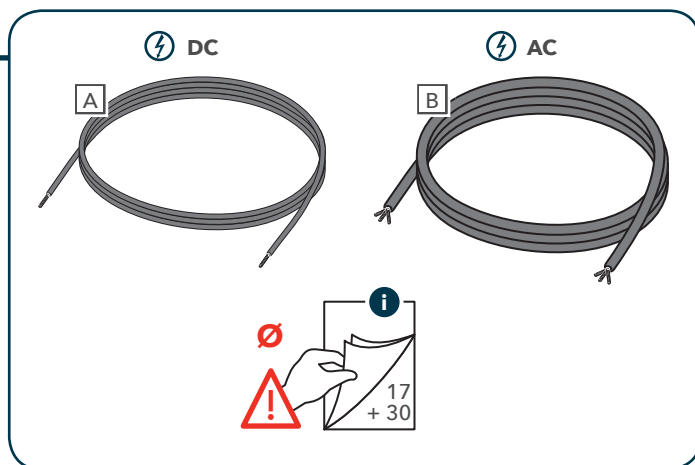
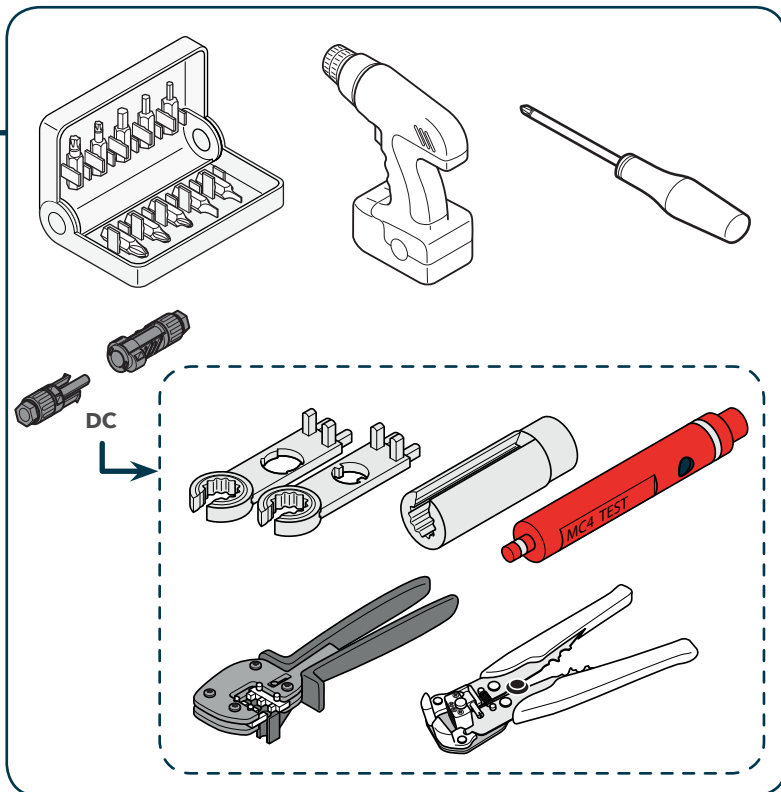
Compteur énergie
Energy meter

Stromzähler
Energíemeter
Contatore energia
Metro energia



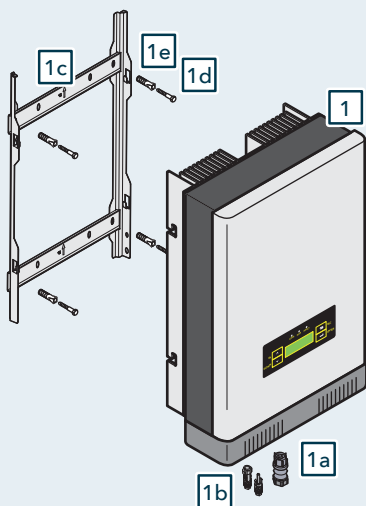
Parafoudre
Lightning protection

Stromzähler
Energíemeter
Parafulmine
Pára-raios

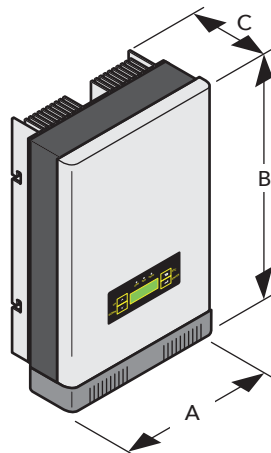




1



min. DC



A B C

				A	B	C
Omniksol-1k-TL2	1300 Wc	90 v	4			
Omniksol-1.5k-TL2	1750 Wc	150 v	6	11	343	281
Omniksol-2k-TL2	2300 Wc		8			
Omniksol-3k-TL2	3400 Wc		12	16.5	352	421
Omniksol-4k-TL2	4500 Wc		16			162.5



IP65 (IEC 60529)



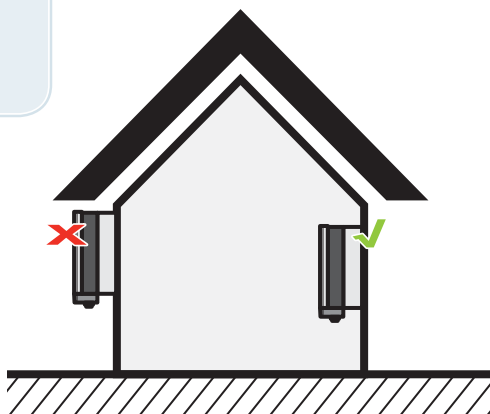
-20°C / +60°C



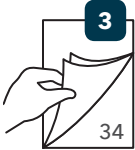
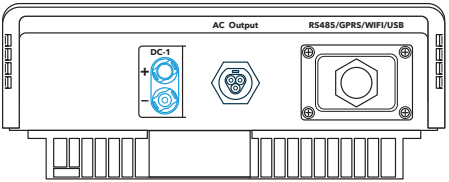
/ STRING ≤ 19

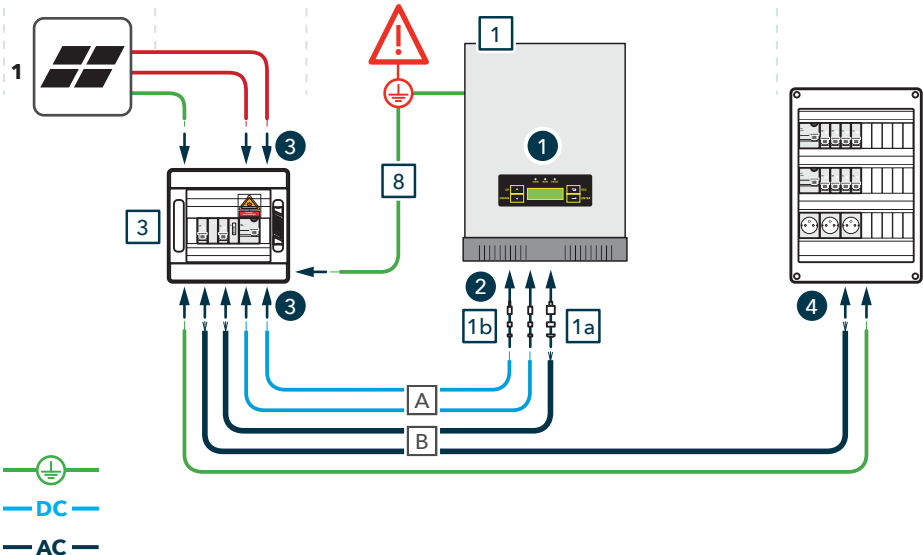


/ STRING ≤ 1000 v

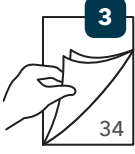
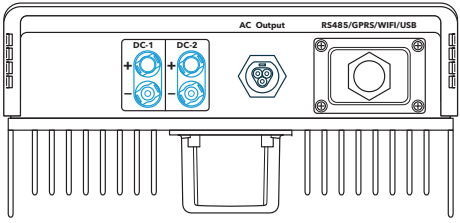


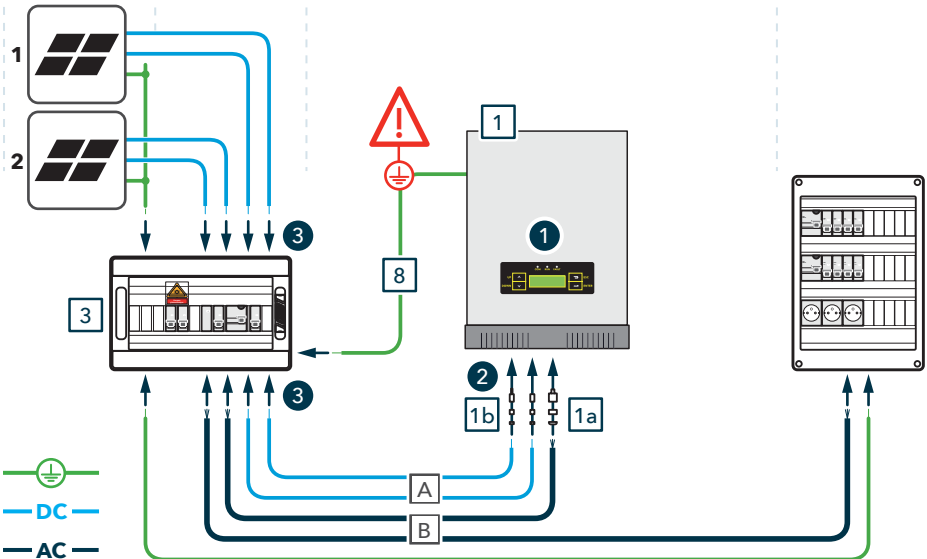


			Omniksol-1k-TL2 Omniksol-1.5k-TL2 Omniksol-2k-TL2	4 6 8	
					

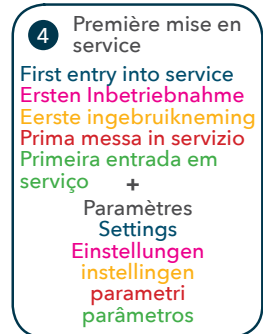
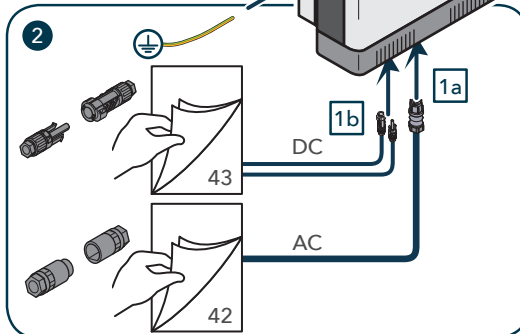
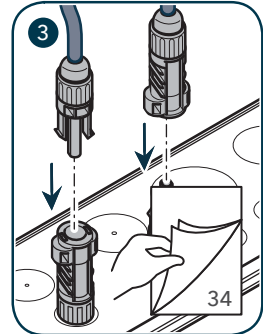
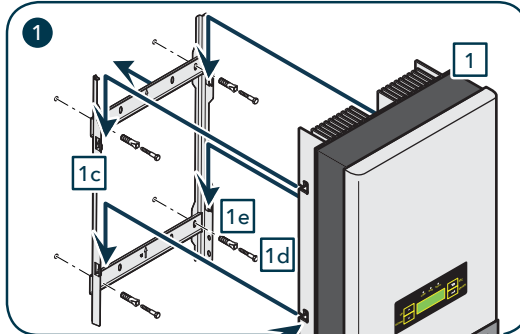
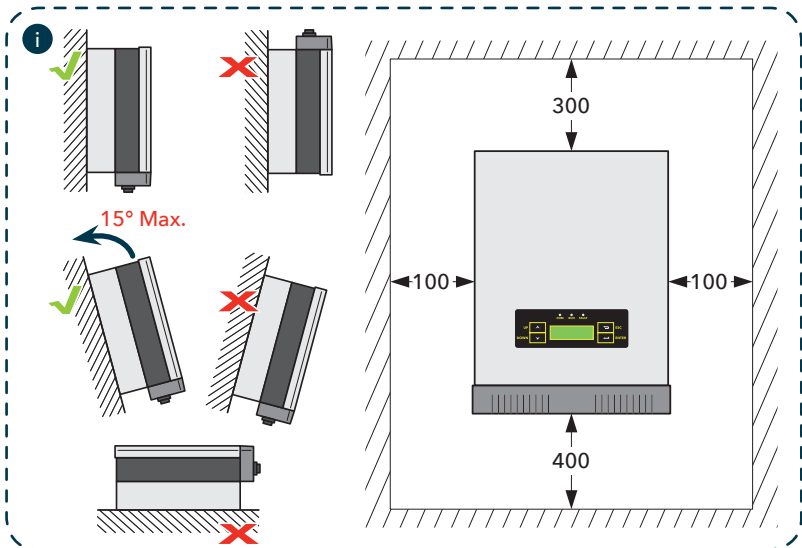




	 AC/DC		Omniksol-3k-TL2 Omniksol-4k-TL2	12 16	
Omniksol-3k-TL2 / Omniksol-4k-TL2					
 					



OMNIK

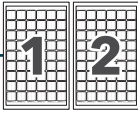


EXEMPLE - EXAMPLE - BEISPIEL - VOORBEELD - ESEMPIO - EXEMPLO



STRING

x1



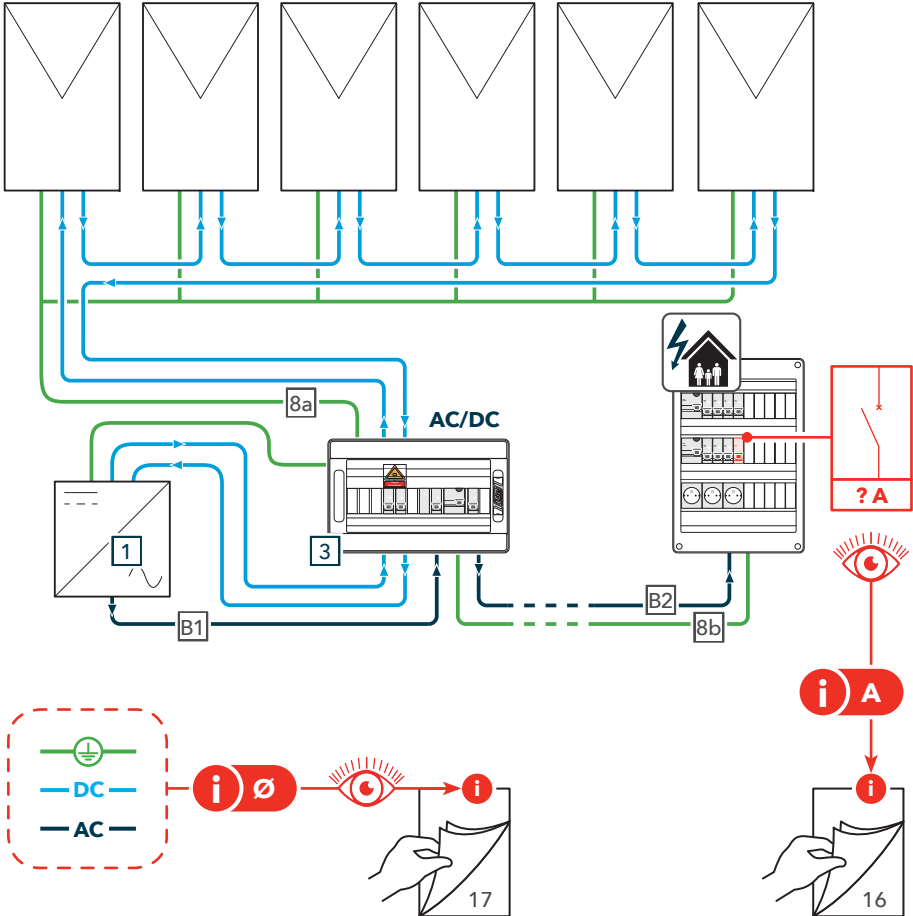
... ? kWc



/ STRING $\leq$ 19



/ STRING $\leq$ 1000 v

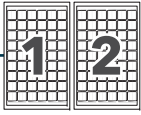


EXEMPLE - EXAMPLE - BEISPIEL - VOORBEELD - ESEMPIO - EXEMPLO



STRING

x2



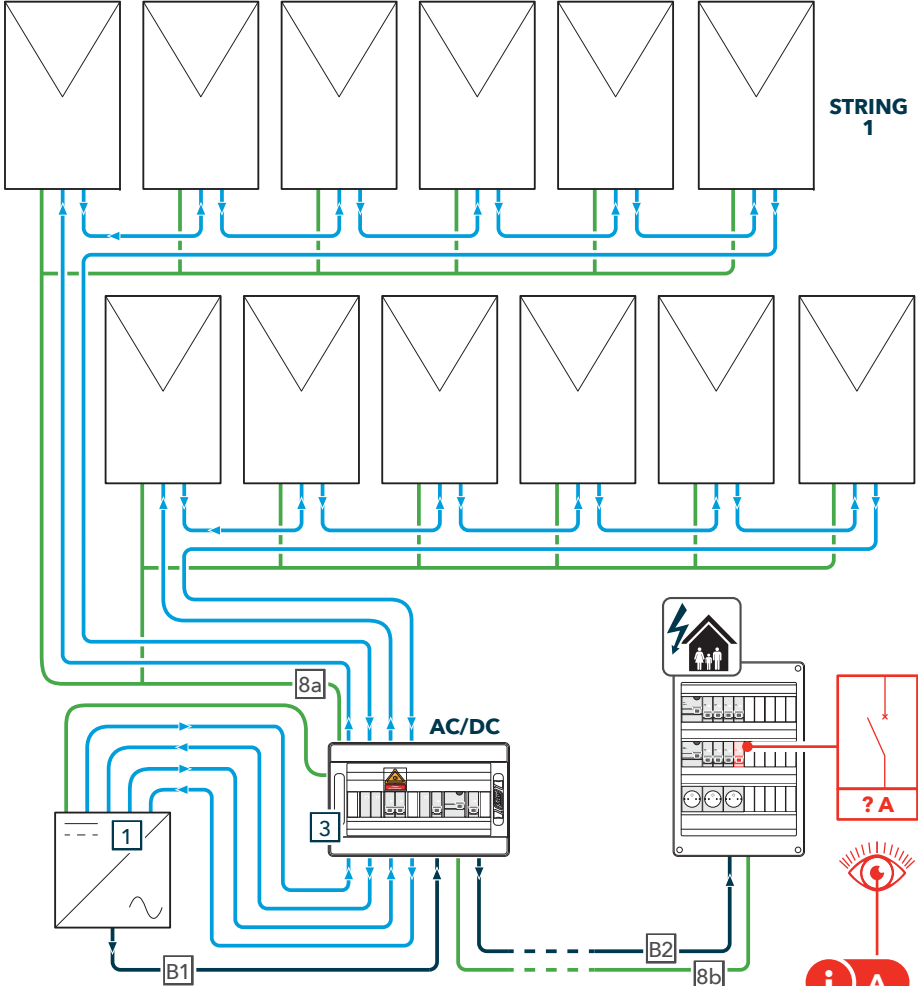
... ? kWc

250Wc

/ STRING ≤ 19

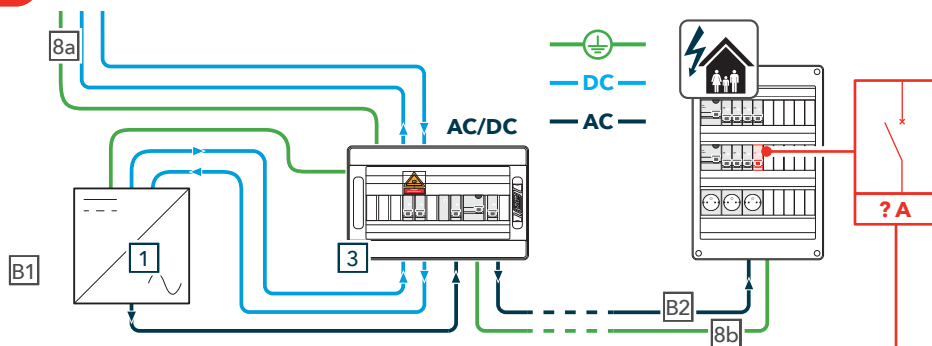


/ STRING ≤ 1000 v





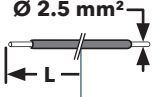
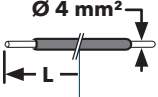
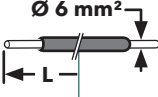
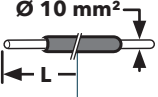
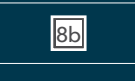
i A

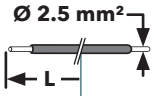
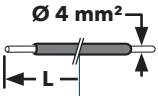
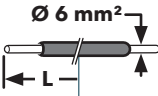
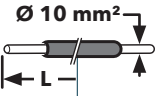
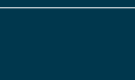


	x8	x12	x18	x24	x36
kWc	2	3	4.5	6	9
A	10	20	25	32	4 x 20

TRI



					
 8a	-	✗	✗	✓	✓
 8b	-	✗	✗	✗	✓
 B2	x8	✗	✗	✗	- 2x10 ²
	x12	✗	✗	✗	- 2x10 ²
	x18	✗	✗	✗	- 2x10 ²
	x24	✗	✗	✗	- 2x10 ²
	x36	✗	✗	✗	- 2x10 ²

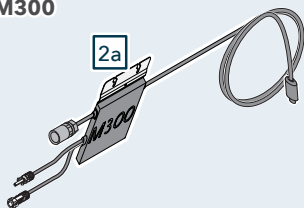
					
 8a & 8b	-	✗	✗	✓	✓
 B1 + B2	x8	≤20 m 3G2.5 ²	≤30 m 3G4 ²	≤45 m 3G6 ²	≤75 m 3G10 ²
	x12	≤13 m 3G2.5 ²	≤22 m 3G4 ²	≤40 m 3G6 ²	≤60 m 3G10 ²
	x18			≤25 m 3G6 ²	≤35 m 3G10 ²
	x24			≤18 m 3G6 ²	≤30 m 3G10 ²
	x36			≤40 m 3G6 ²	≤70 m 3G10 ²



2

M300

2a

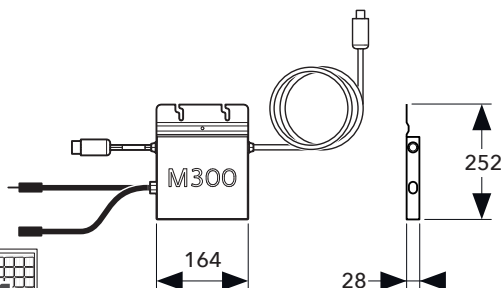


250 w

48 v

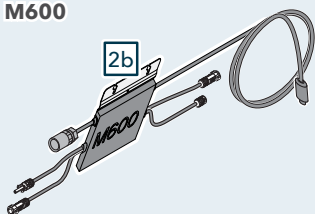
1.5

IP67



M600

2b

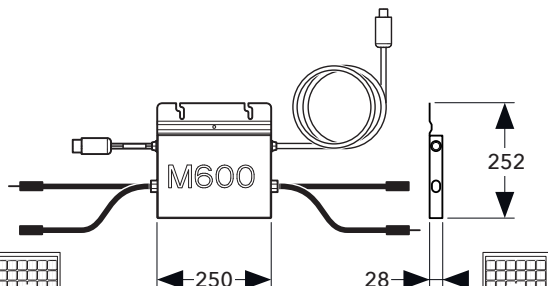


500 w

48 v

2.5

IP67

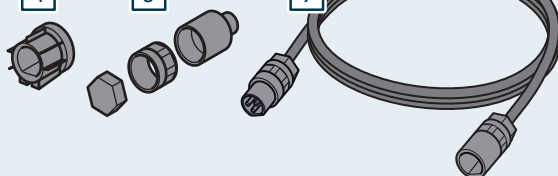


AC

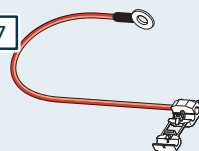
4

5

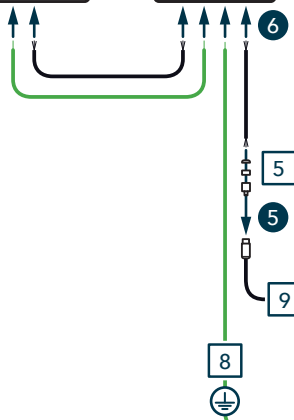
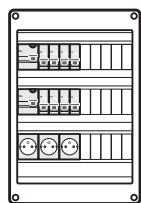
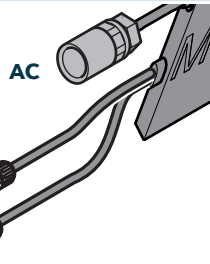
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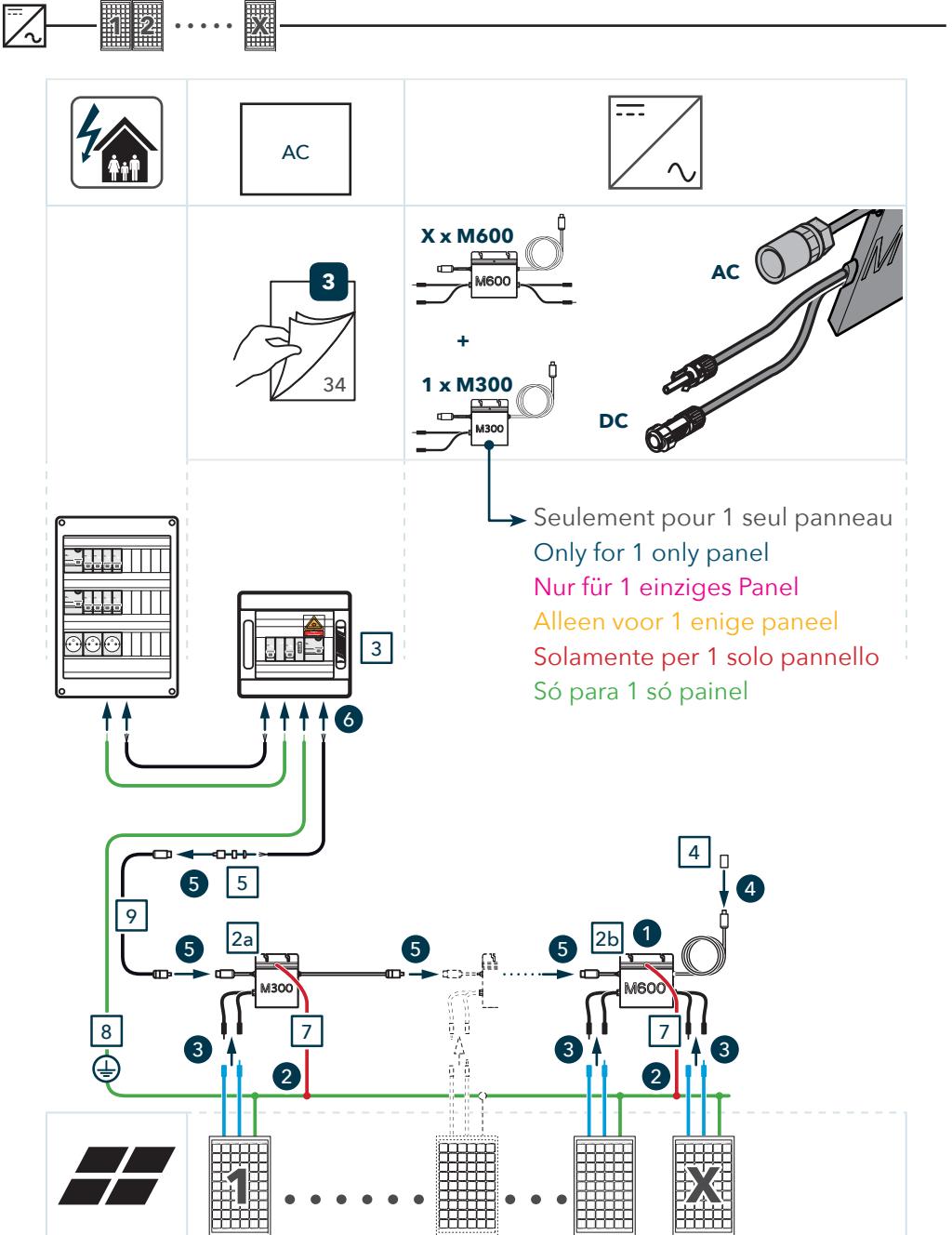


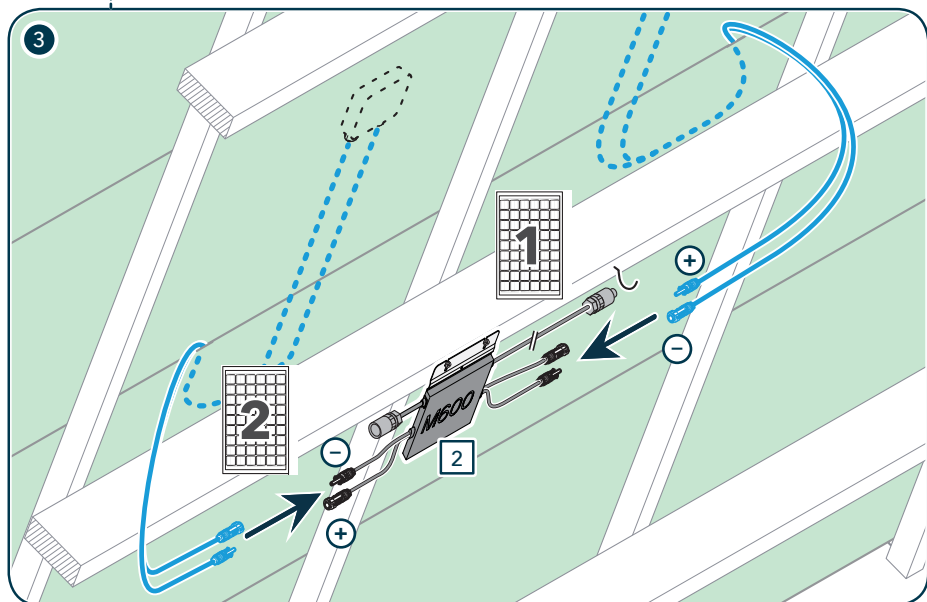
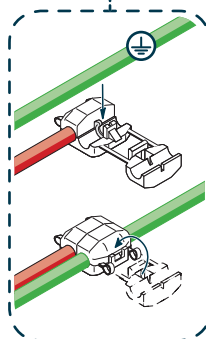
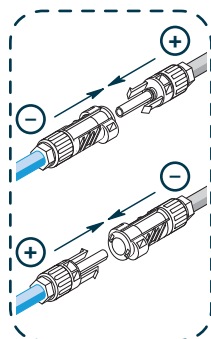
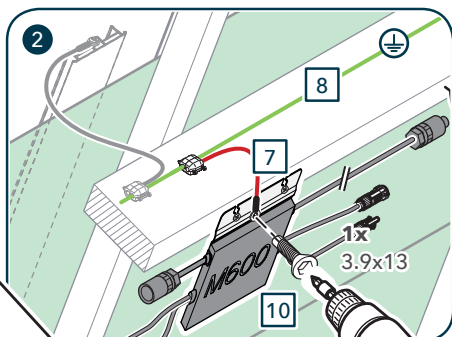
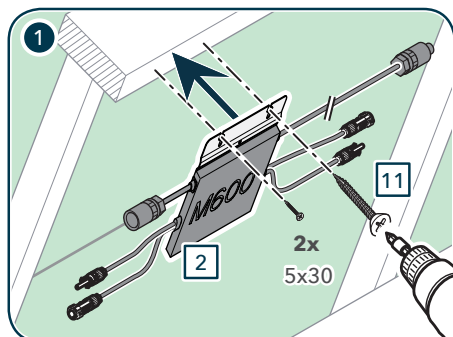
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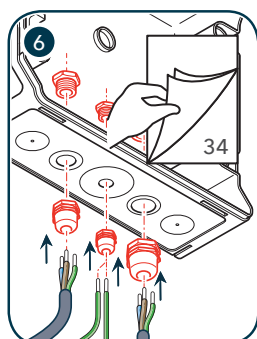
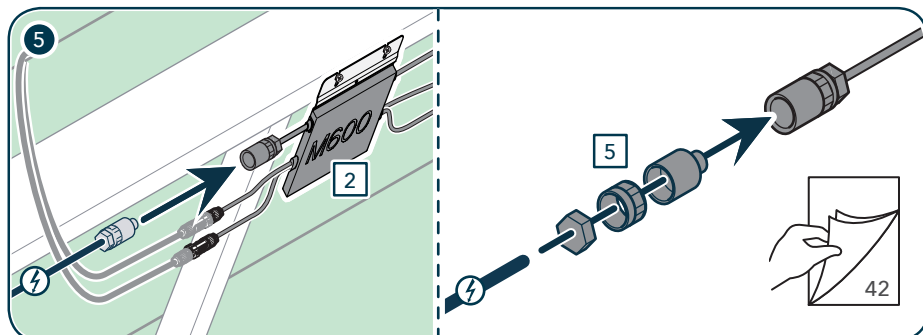
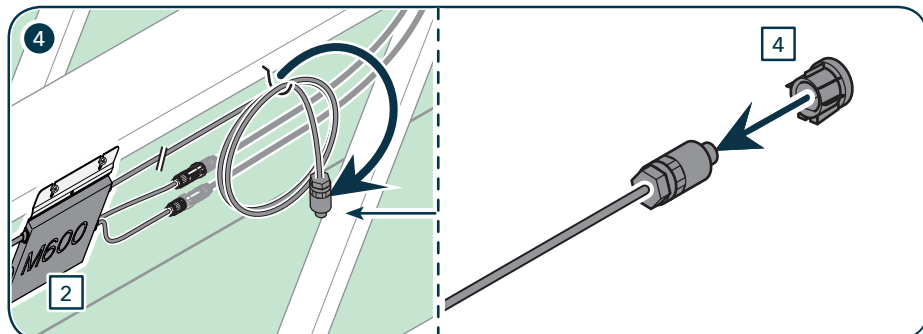


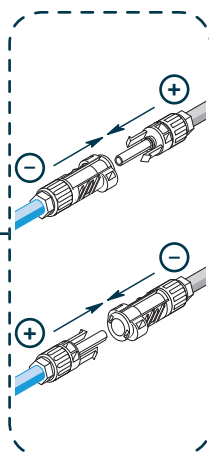
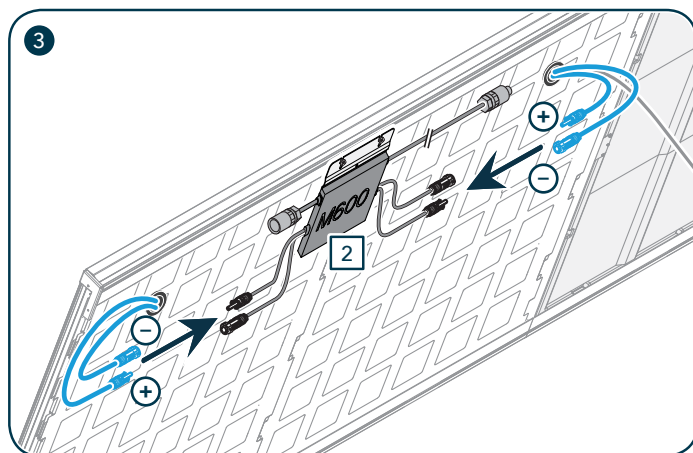
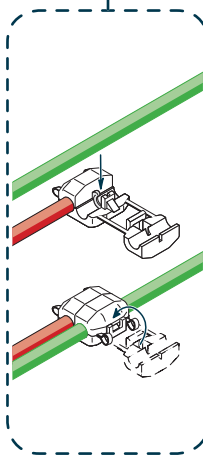
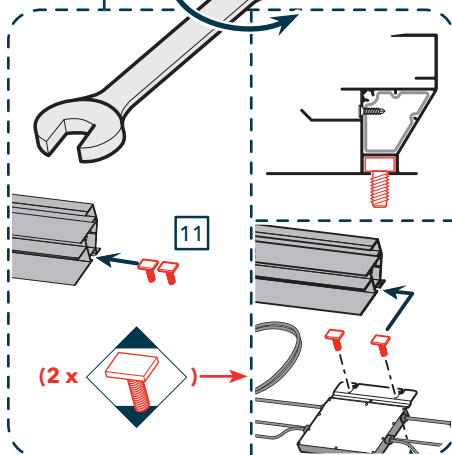
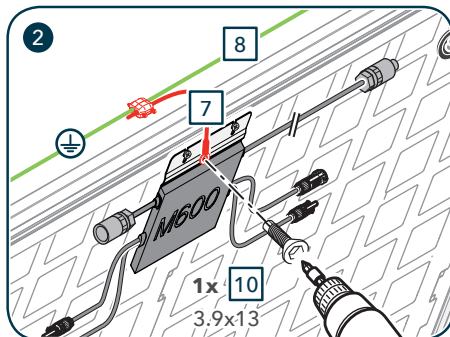
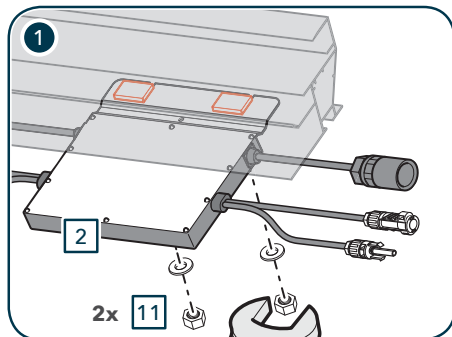


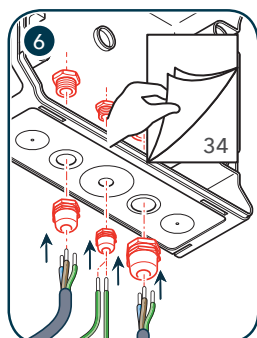
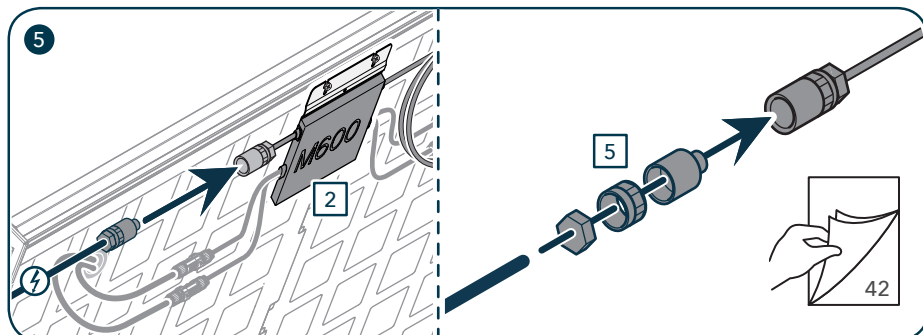
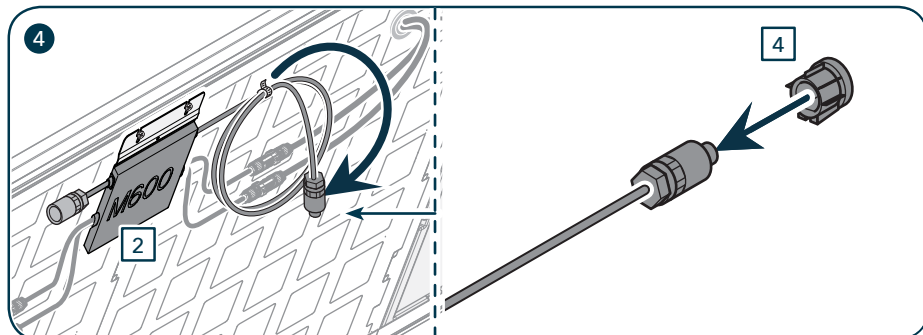


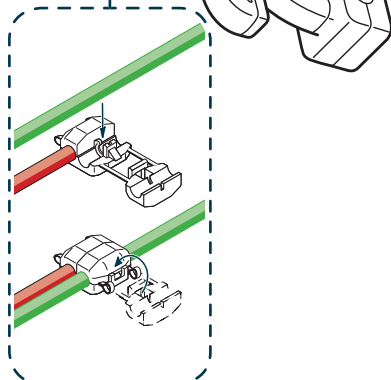
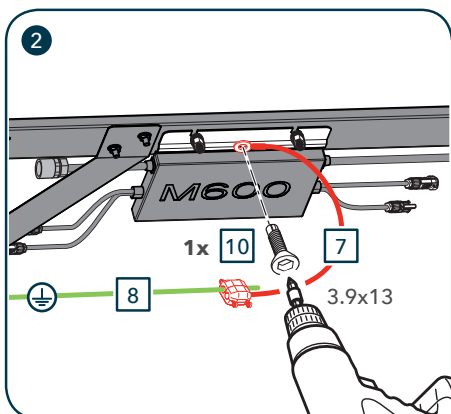


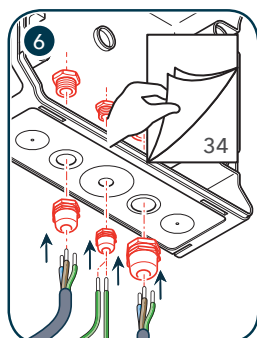
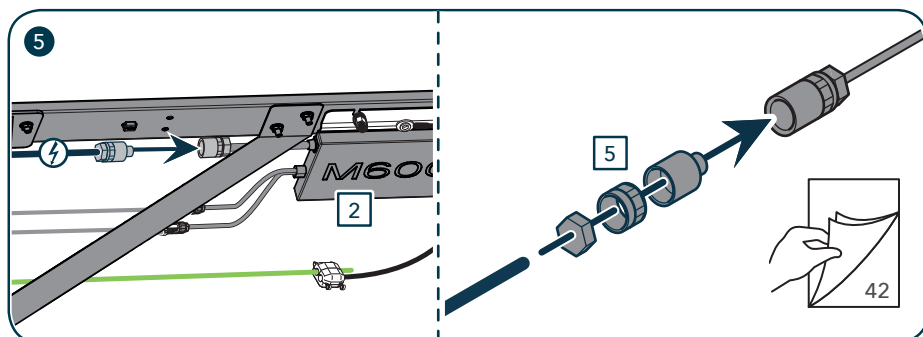
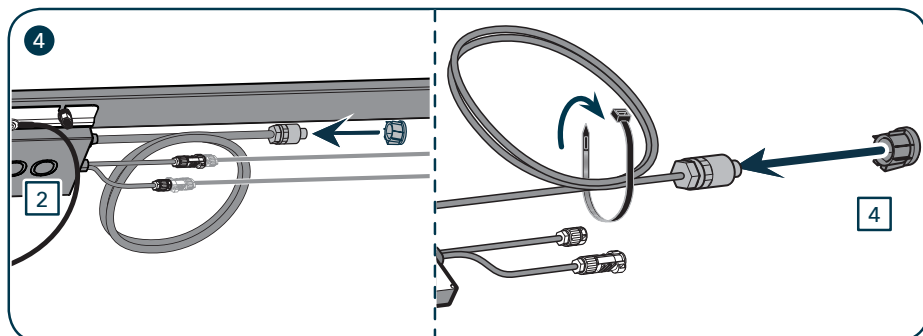


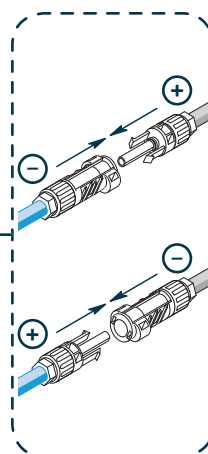
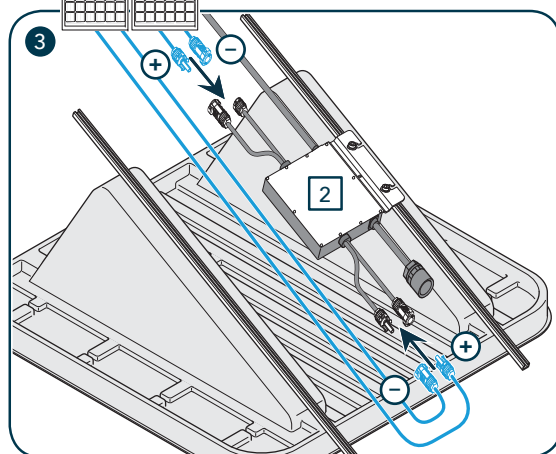
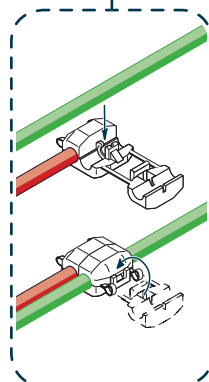
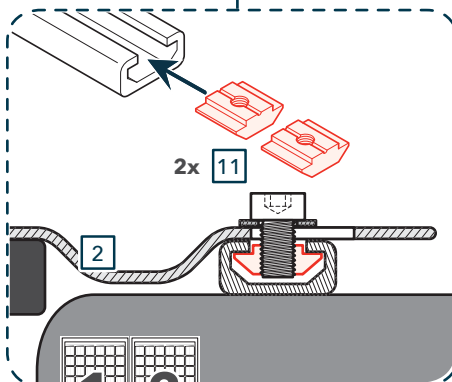
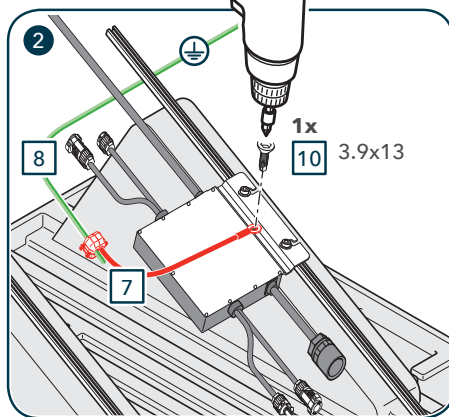
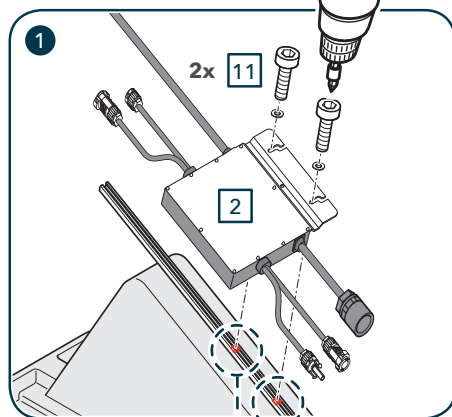


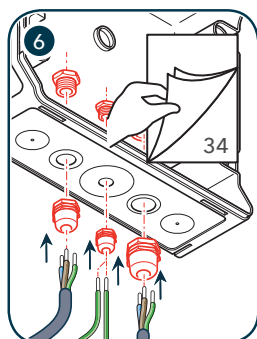
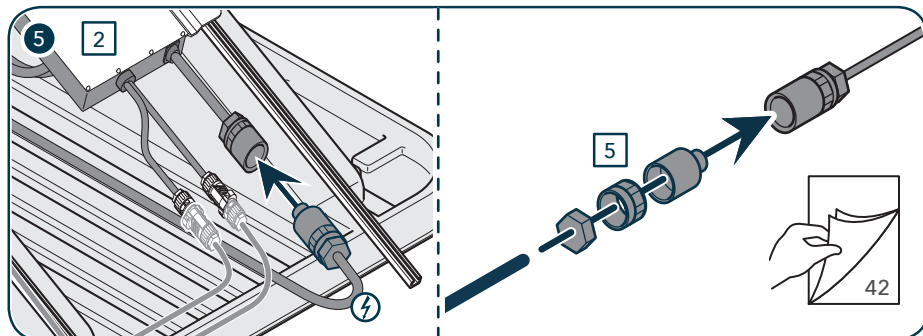
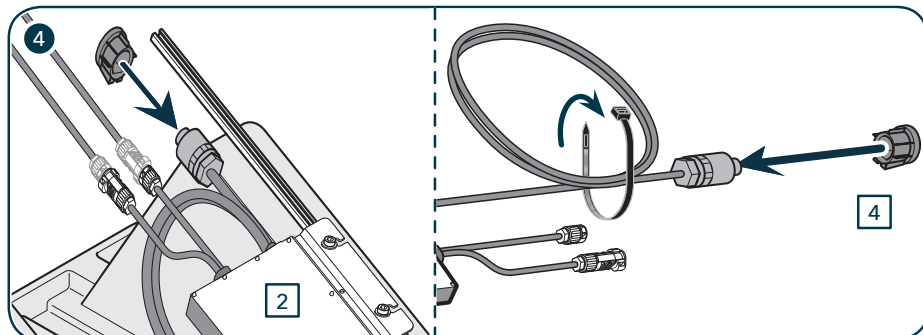










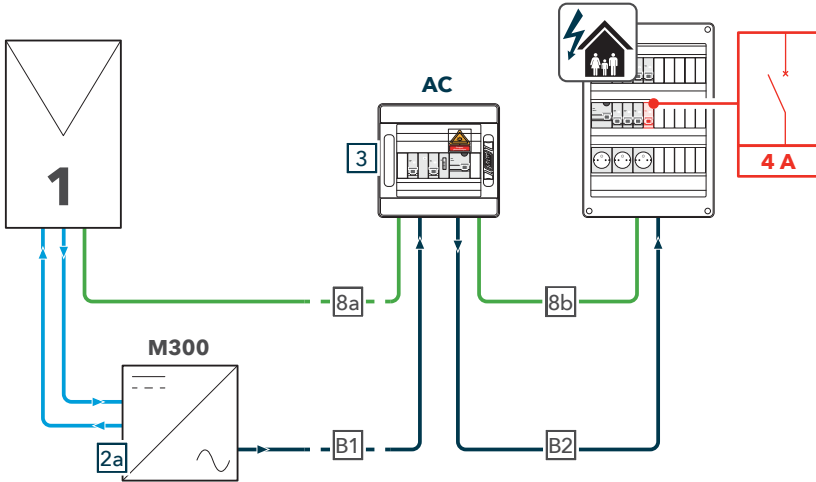




EXEMPLE - EXAMPLE - BEISPIEL - VOORBEELD - ESEMPIO - EXEMPLO



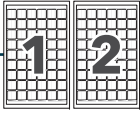
250Wc



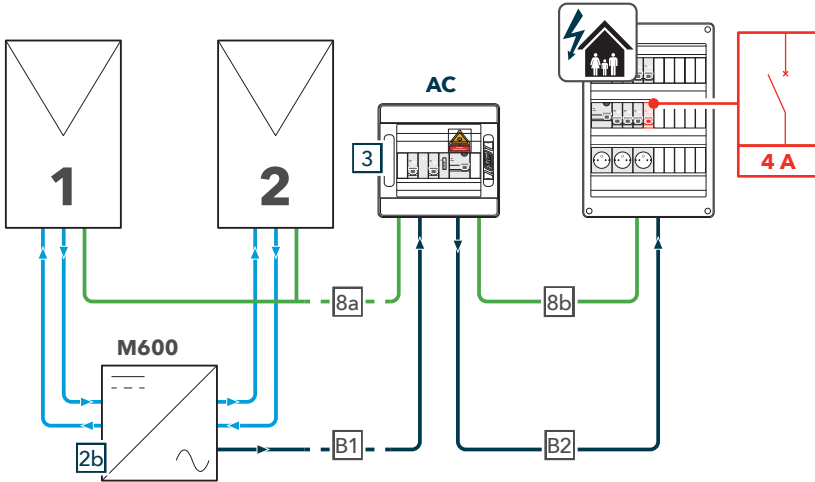
	Ø 2.5 mm ²	Ø 4 mm ²	Ø 6 mm ²	Ø 10 mm ²
8a & 8b	X	X	✓	✓
B1 + B2	≤166 m 3G2.5 ²	≤267 m 3G4 ²		



EXEMPLE - EXAMPLE - BEISPIEL - VOORBEELD - ESEMPIO - EXEMPLO



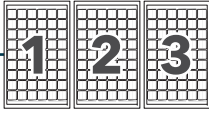
500Wc



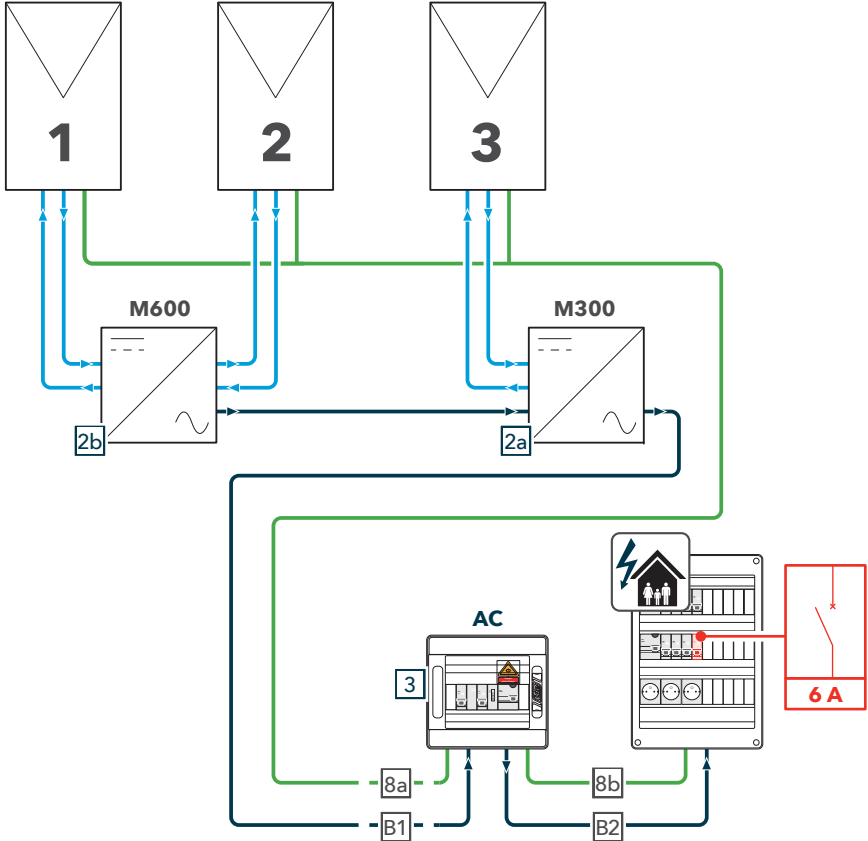
	Ø 2.5 mm ²	Ø 4 mm ²	Ø 6 mm ²	Ø 10 mm ²
8a & 8b	X	X	✓	✓
B1 + B2	≤83 m 3G2.5 ²	≤133 m 3G4 ²		



EXAMPLE - EXAMPE - BEISPIEL - VOORBEELD - ESEMPIO - EXEMPLO



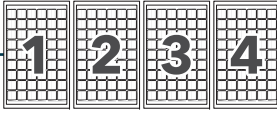
750Wc



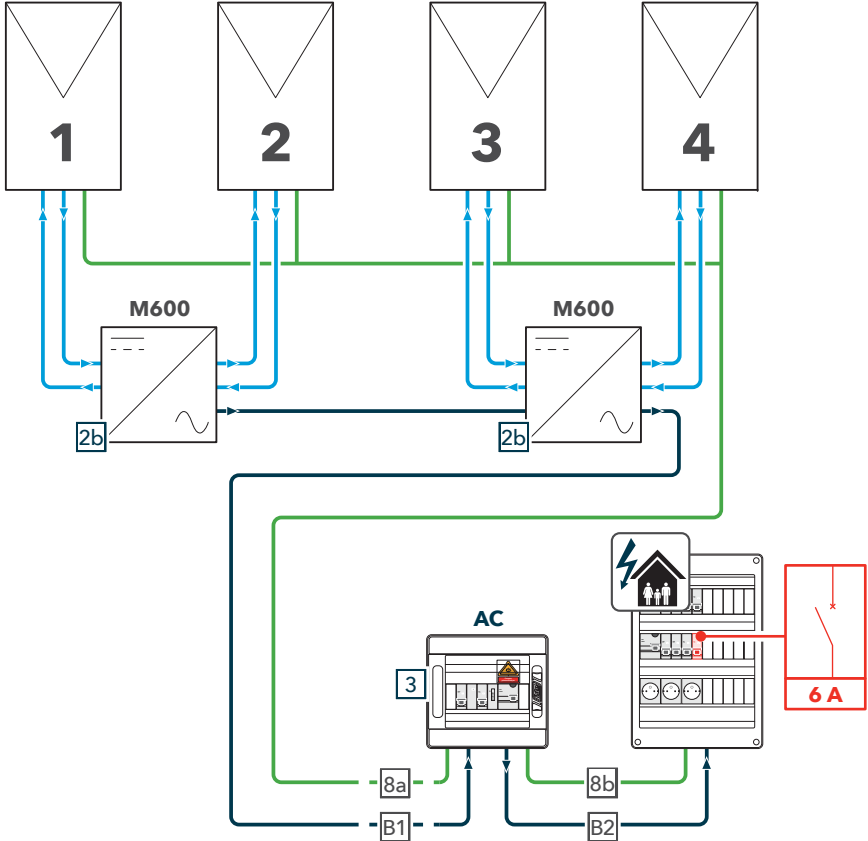
	Ø 2.5 mm ²	Ø 4 mm ²	Ø 6 mm ²	Ø 10 mm ²
8a & 8b	X	X	✓	✓
B1 + B2	≤55 m 3G2.5 ²	≤89 m 3G4 ²		



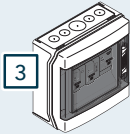
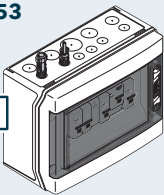
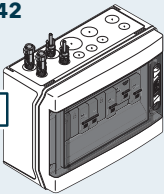
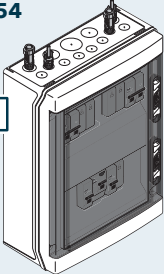
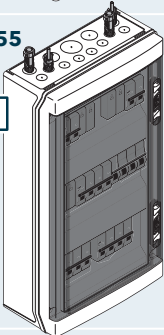
EXAMPLE - EXAMPLE - BEISPIEL - VOORBEELD - ESEMPIO - EXEMPLO



1000Wc



	Ø 2.5 mm ²	Ø 4 mm ²	Ø 6 mm ²	Ø 10 mm ²
8a & 8b	X	X	✓	✓
B1 + B2	≤41 m 3G2.5 ²	≤66 m 3G4 ²		

 IP55/65 IK08 CLASSE 2				 STRING x  MPPT x  250Wc x   						
E052	 3	0 - 1 Kwc	mono	1	1	≤ 4	AC	✓	35	
E053	 3	0 - 3 Kwc	mono	1	1	≤ 12	AC	✗	36	
E042	 3	0 - 3 Kwc	mono	2	1	≤ 12	AC/DC	✗	37	
E054	 3	0 - 6 Kwc	mono	2	2	≤ 24	AC/DC	✗	38	
E055	 3	6 - 9 Kwc	tri	2	2	≤ 36	AC/DC	✗	40	

R-VOLT
AIR-VOLT

R-VOLT PLUS
AIR-VOLT PLUS

V-SYS

AC

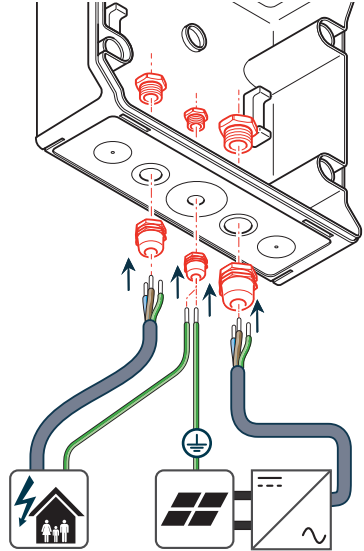
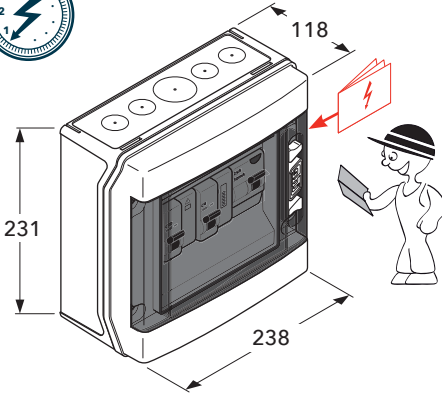
E052 : 0 - 1 kWc - AC



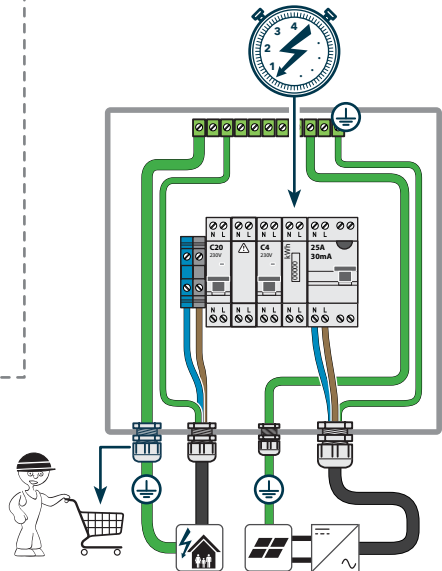
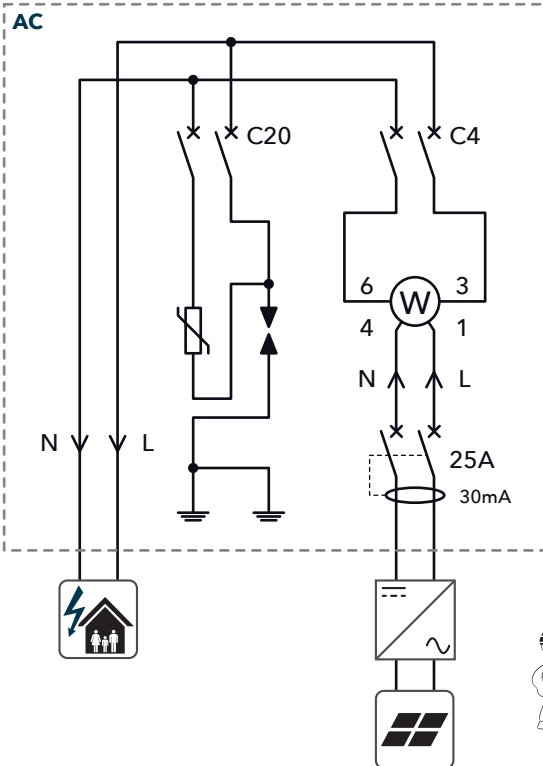
250Wc

x 1

→ 4



AC



AC/DC

E053 : 0 - 3 kWc - AC/DC mono (1MPPT)

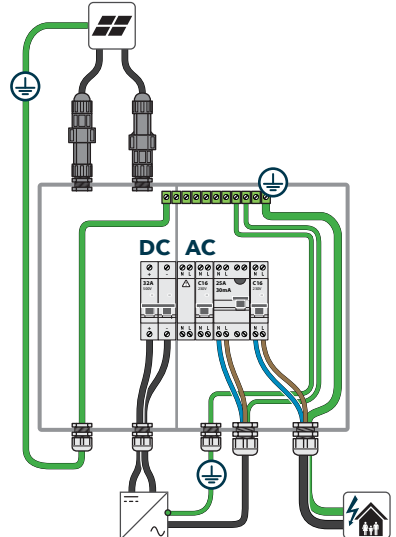
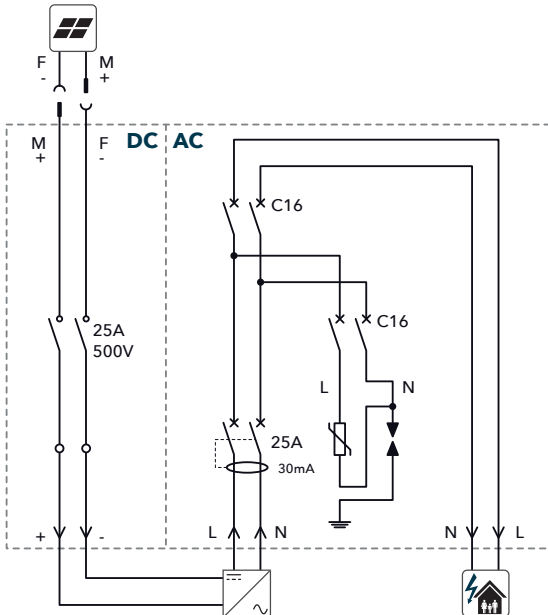
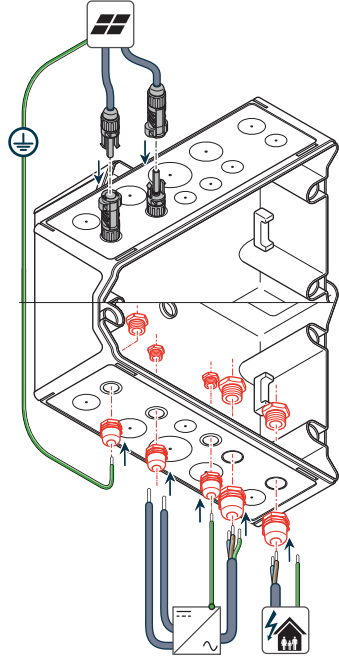
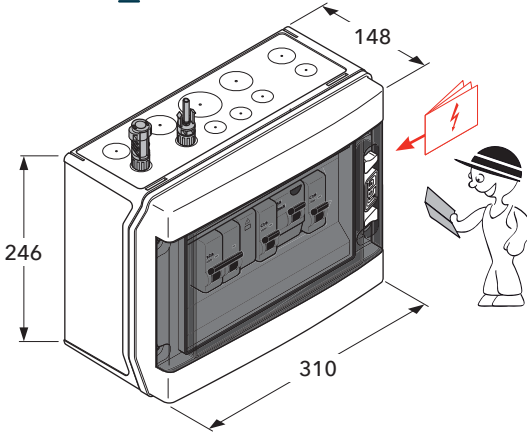
250Wc



1 → 12

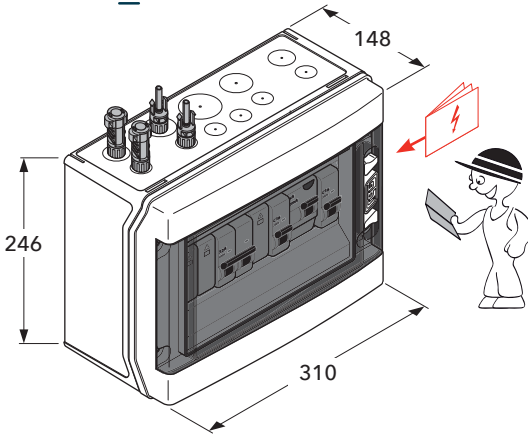


STRING



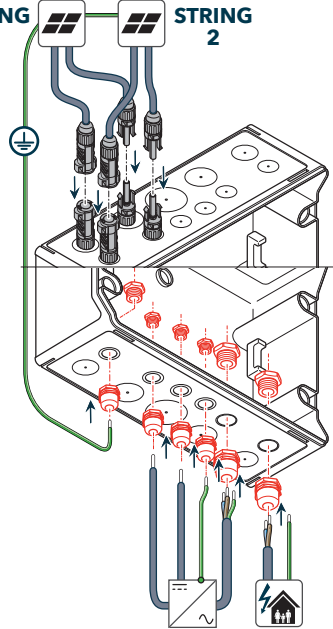
250Wc

1 → 12



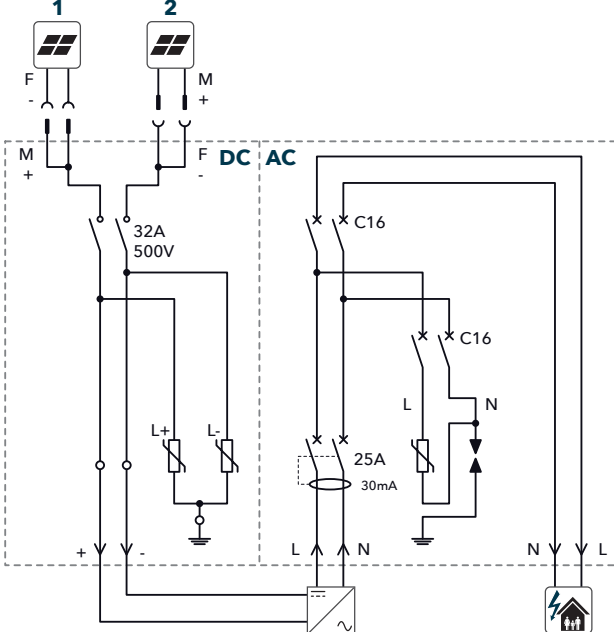
STRIP
1

STRING
2



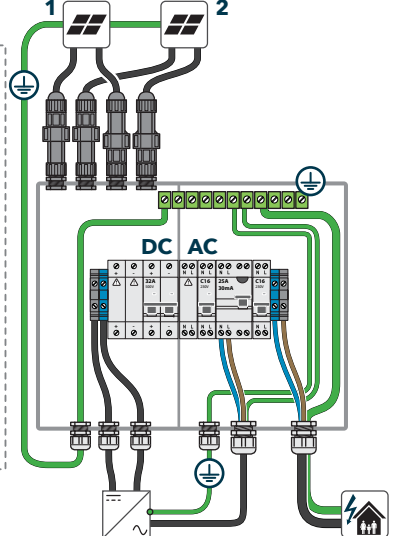
STRING

STRING



STRING

STRING



AC/DC

E054 : 0 - 3 kWc - AC/DC mono (2MPPT)

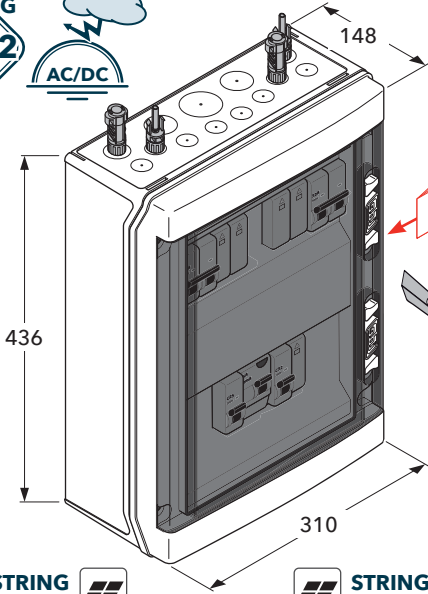
250Wc



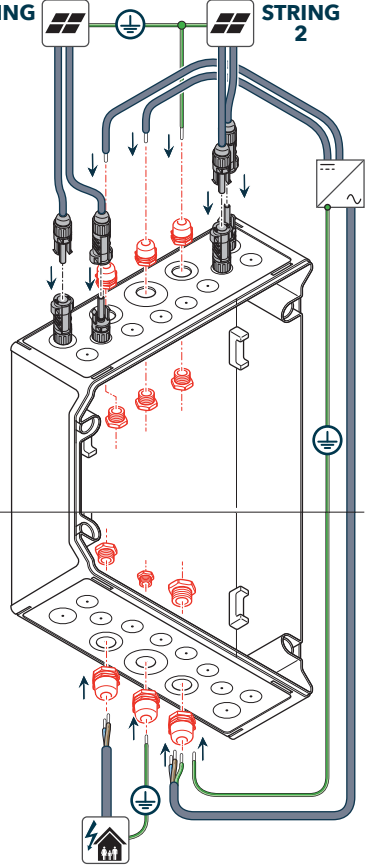
1 → 24



STRING

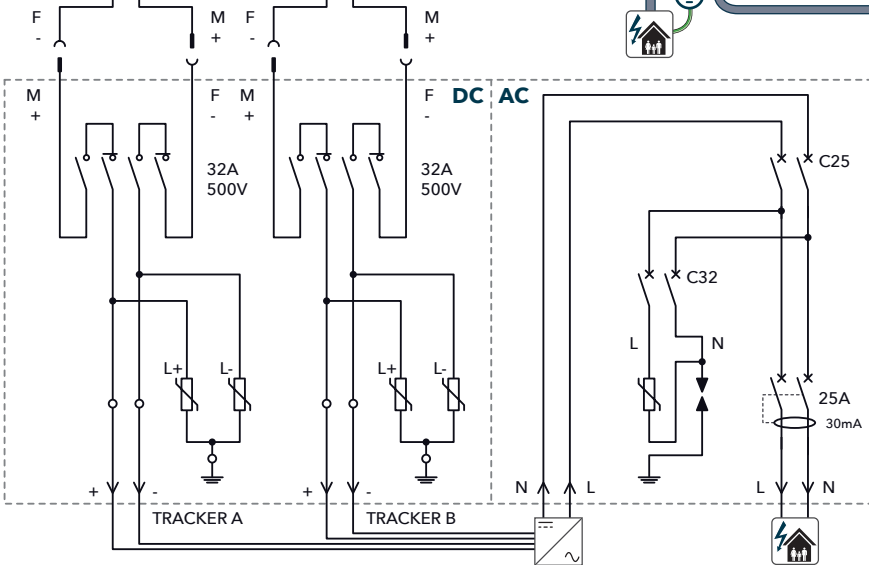


STRING 1

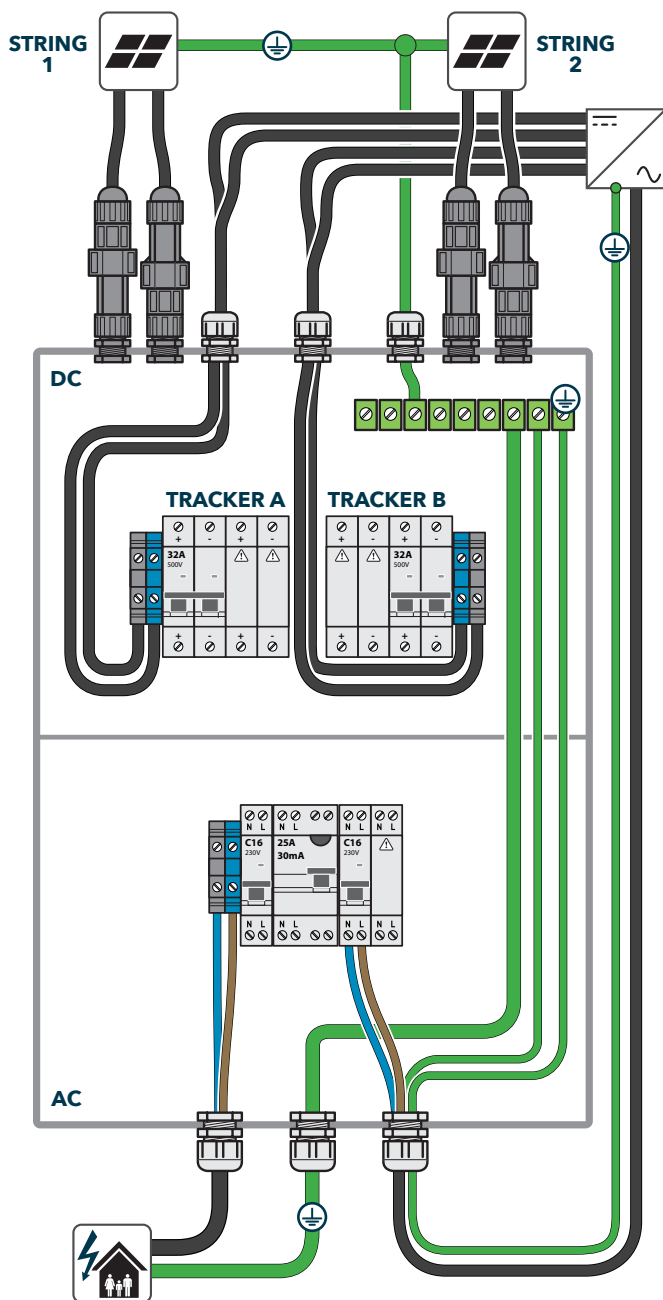


STRING 1

STRING 2



AC/DC



AC/DC

E055 : 6 - 9 kWc - AC/DC TRI (2MPPT)

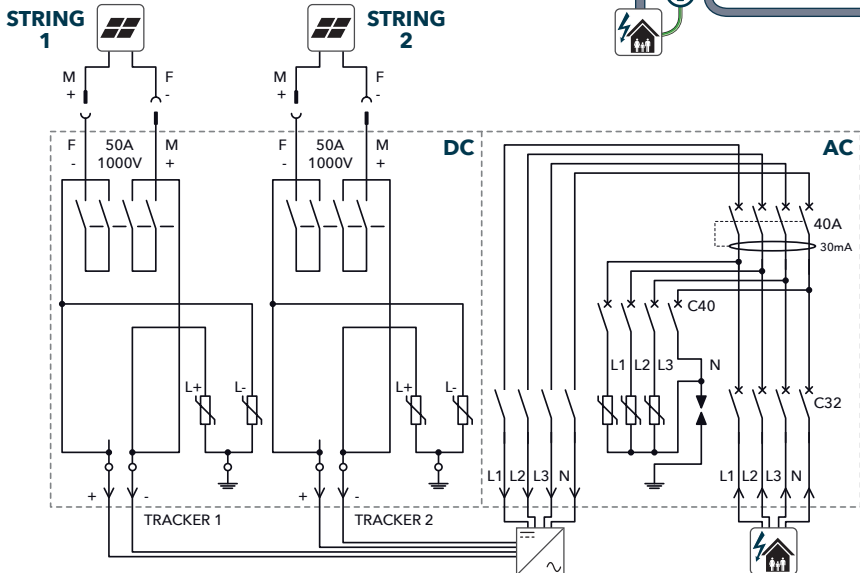
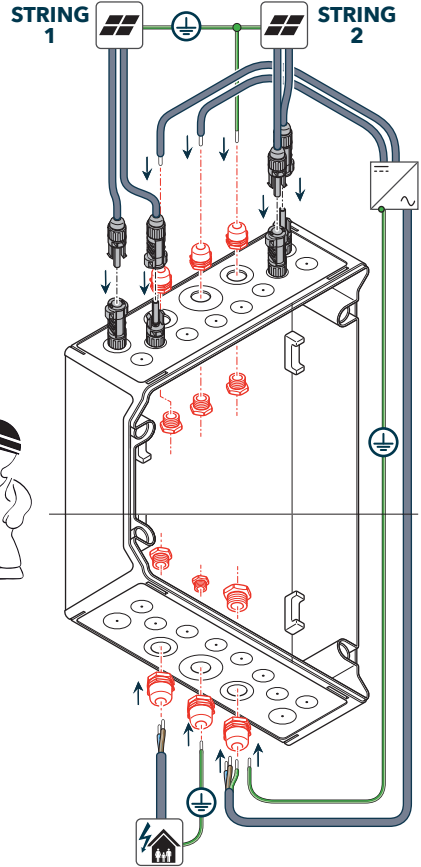
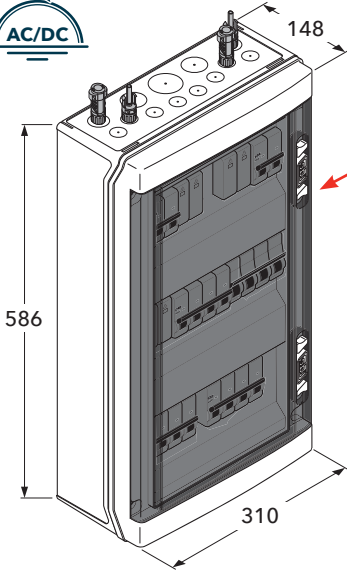
250Wc



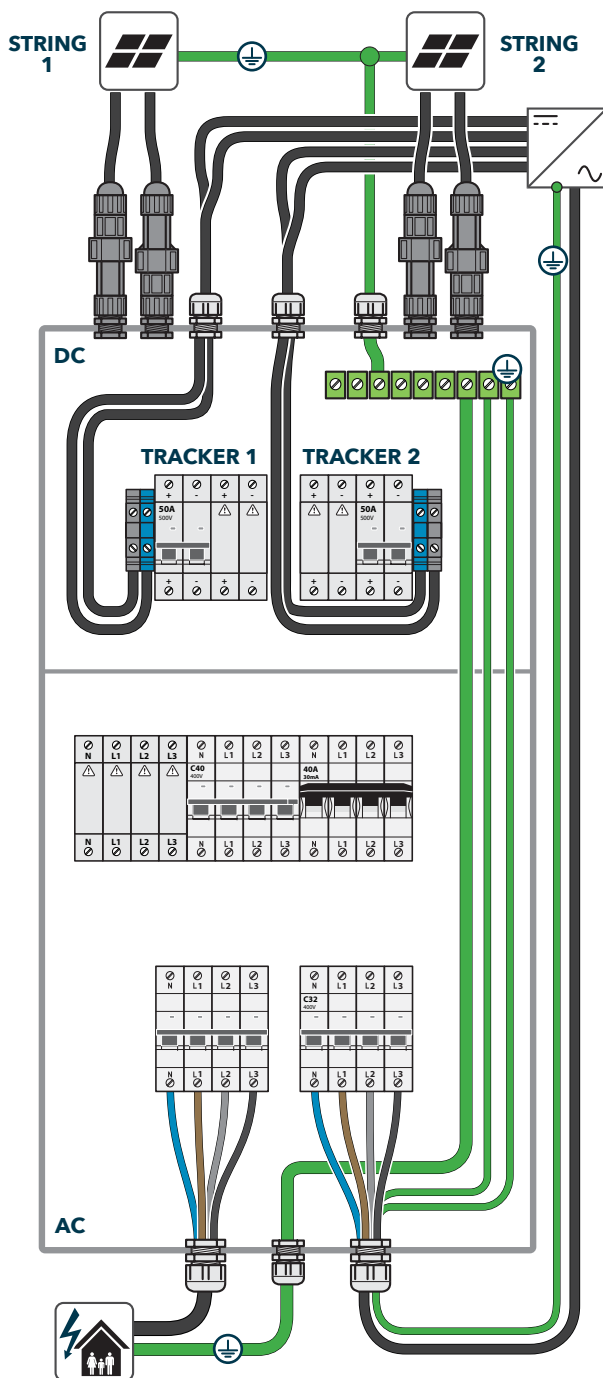
24 → 36



STRING

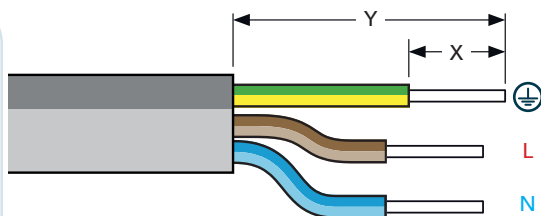
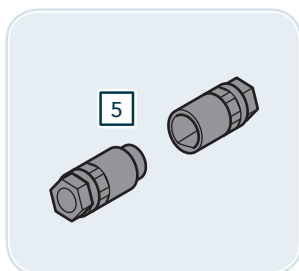


AC/DC

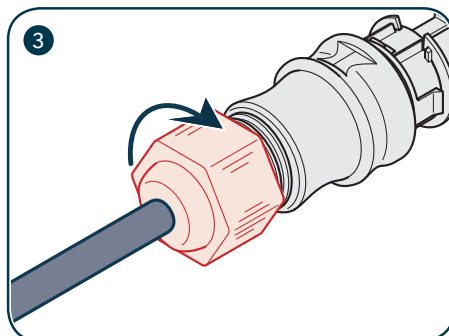
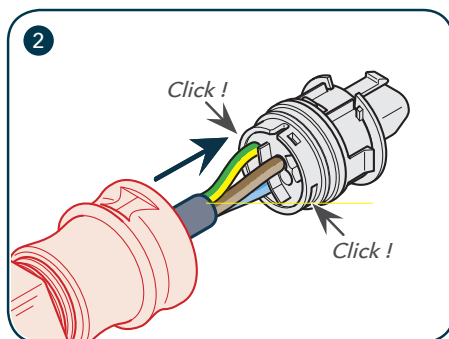
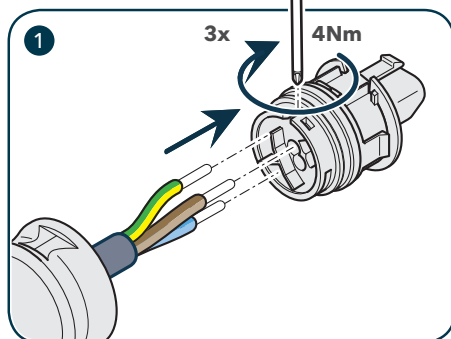




4



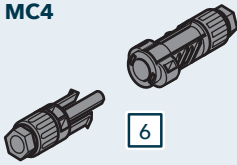
	Ø	X	Y
⊕	1.5 - 4mm ²	14	40
L	1.5 - 4mm ²	14	35
N	1.5 - 4mm ²	14	35



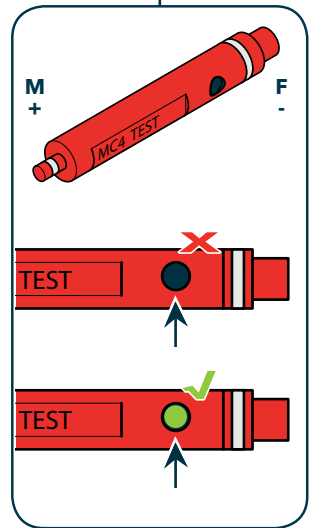
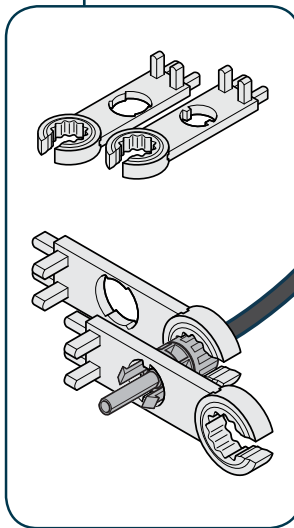
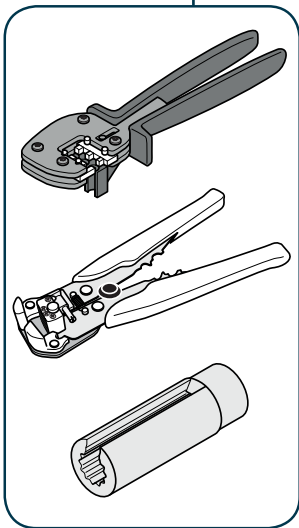
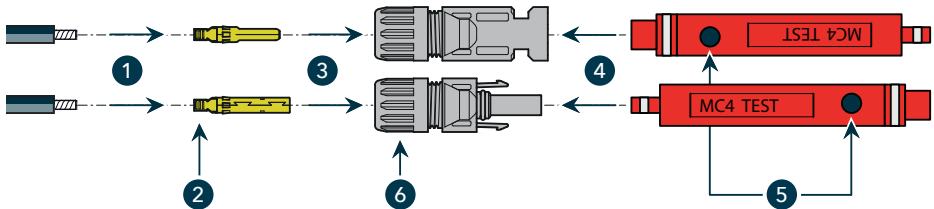
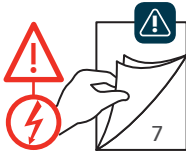


5

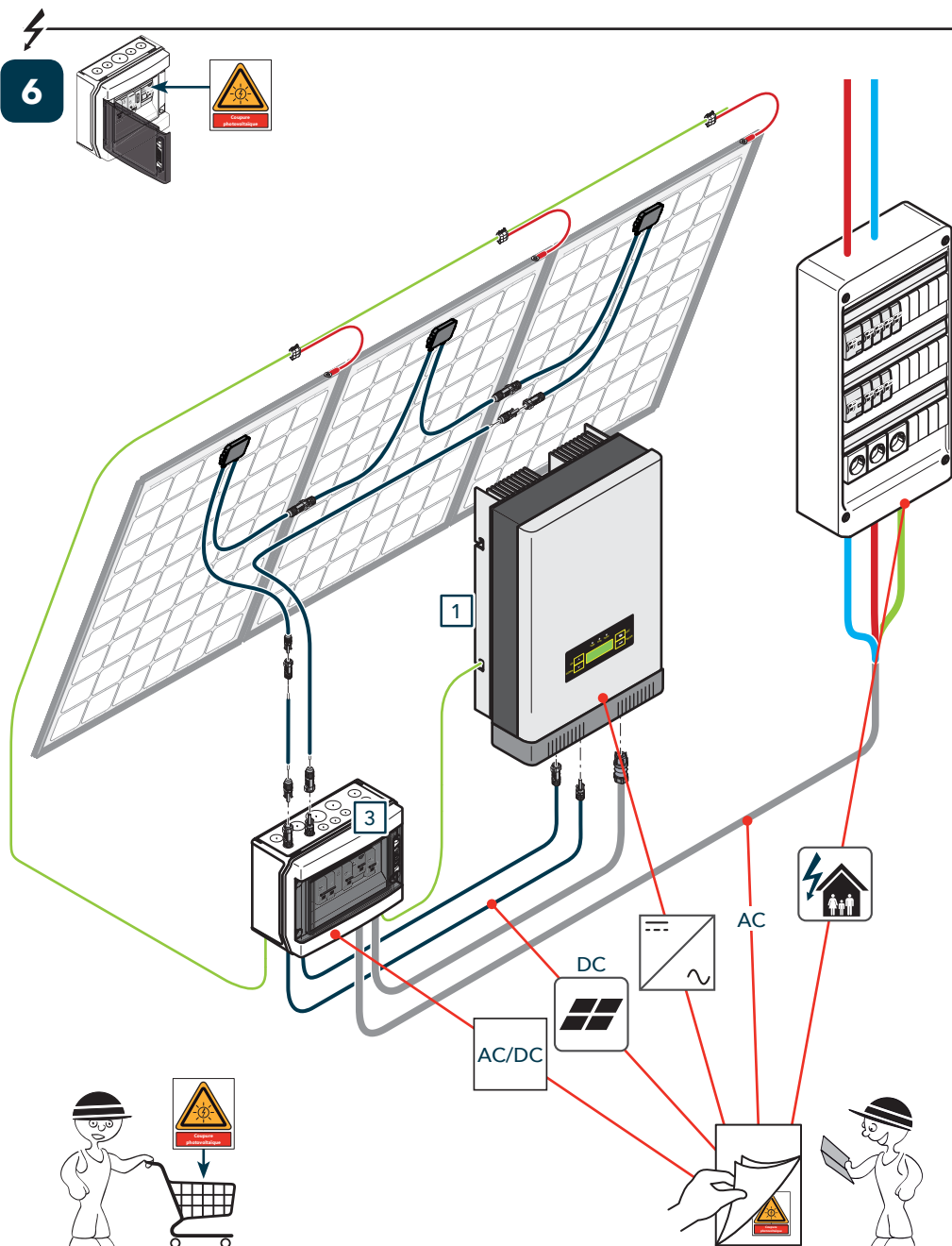
MC4

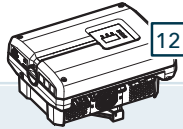


Ø	A	L
1.5 mm ²	17 A	6 - 7.5
2.5 mm ²	22 A	6 - 7.5
4 - 6 mm ²	30 A	6 - 7.5



6





min. DC



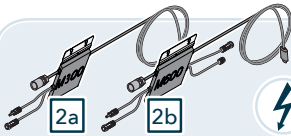
/ STRING ≤ 19



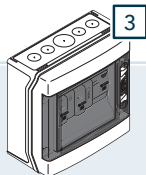
/ STRING ≤ 1000 v



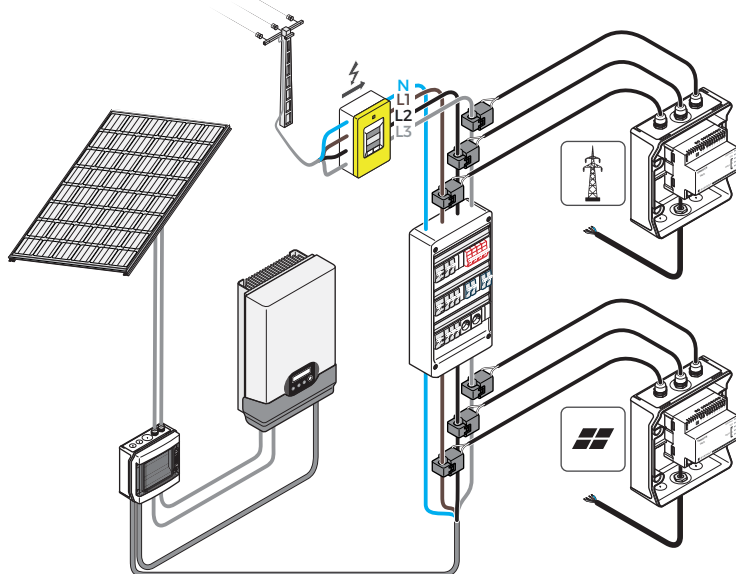
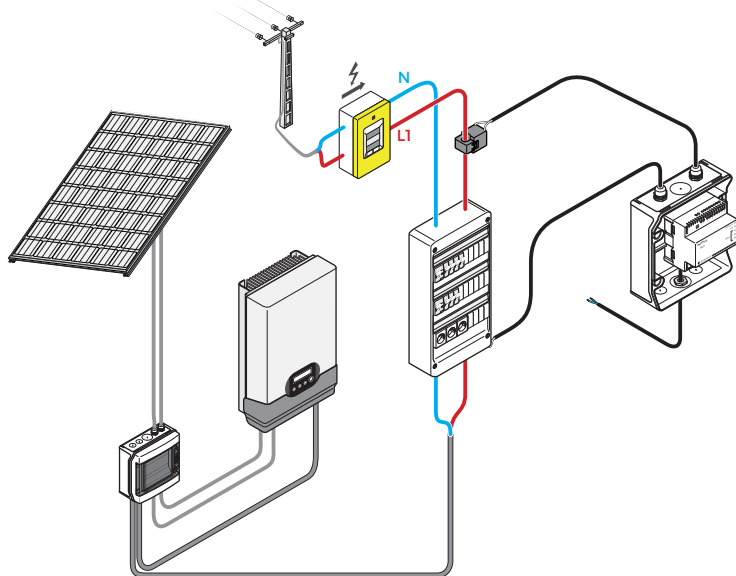
Omniksol-1k-TL2	1300 w	90 v				4	1
Omniksol-1.5k-TL2	1750 w	150 v				6	
Omniksol-2k-TL2	2300 w					8	
Omniksol-3k-TL2	3400 w					12	mono
Omniksol-4k-TL2	4500 w					16	
Kostal Piko 8.5	9400 w	180 v				36	
							tri 12



M300	300 w	mono				1	
M600	600 w	mono				2	



E052	0 - 1 Kwc	mono				≤ 4	AC
E053	0 - 3 Kwc	mono				≤ 12	
E042	0 - 3 Kwc	mono				≤ 24	AC/DC
E054	0 - 6 Kwc	mono				≤ 36	
E055	6 - 9 Kwc	tri					

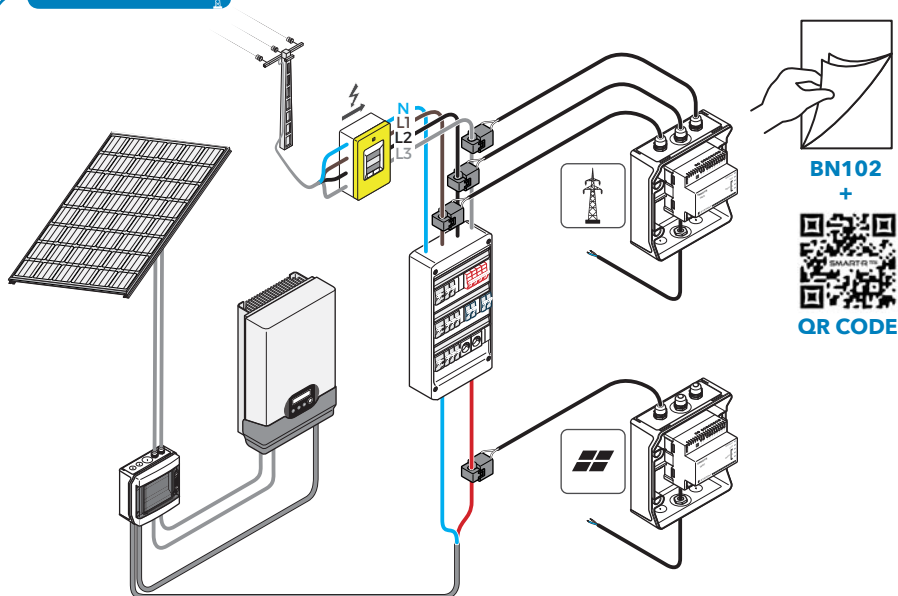




SMART-R / SMART-AIR

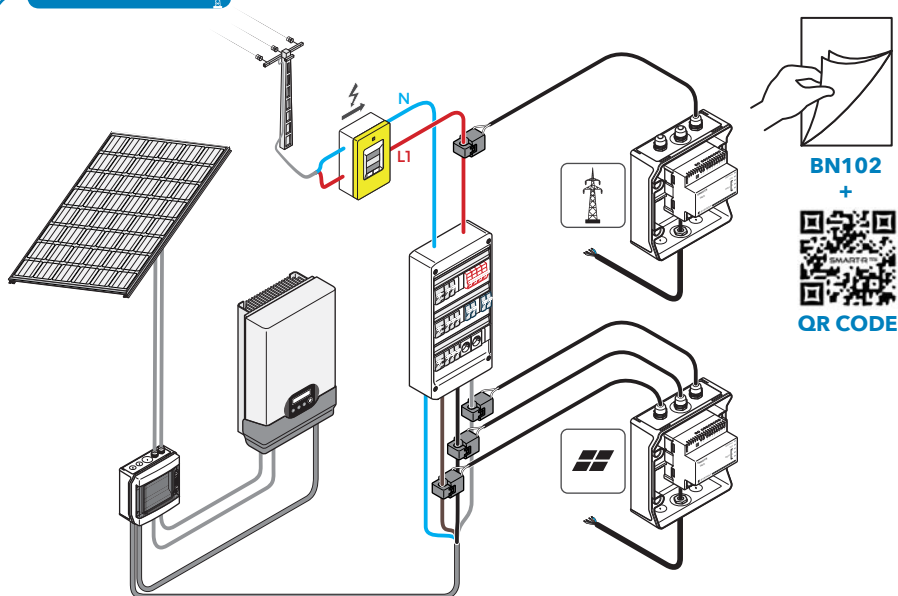
MONO - TRI

EL13



TRI - MONO

EL13



Assistance technique



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BRANCHEMENTS ÉLECTRIQUES



BN101

