



GW5048-ESA

V1.5-2022-10-30

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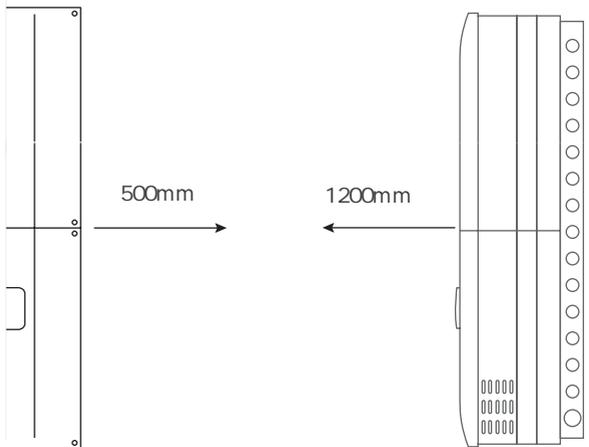
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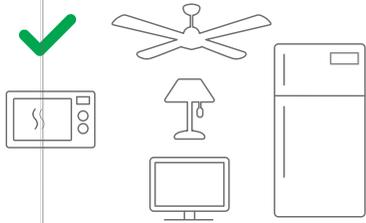




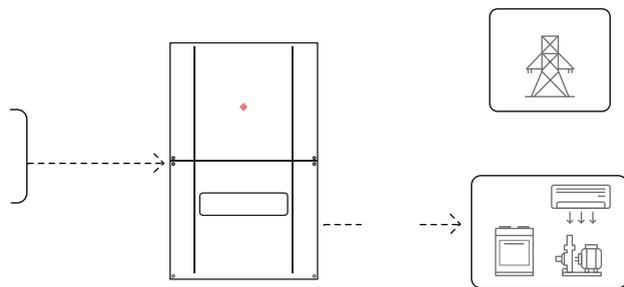
02

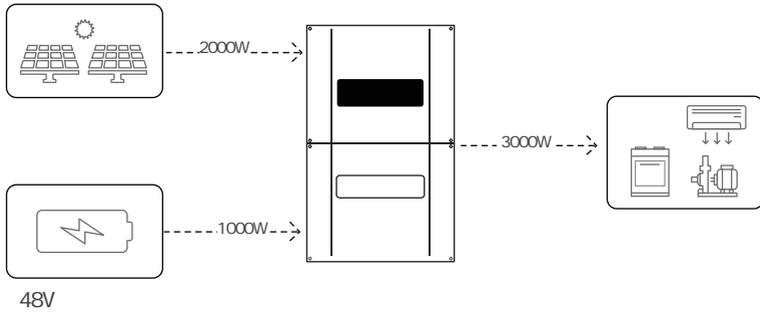
2.1 BACK-UP

6900 BACK-UP 5000 45
10 60
BACKUP N MEN



2.2





2.2.2

2.2.3

2.2.4

APP

03

GW5048-ESA

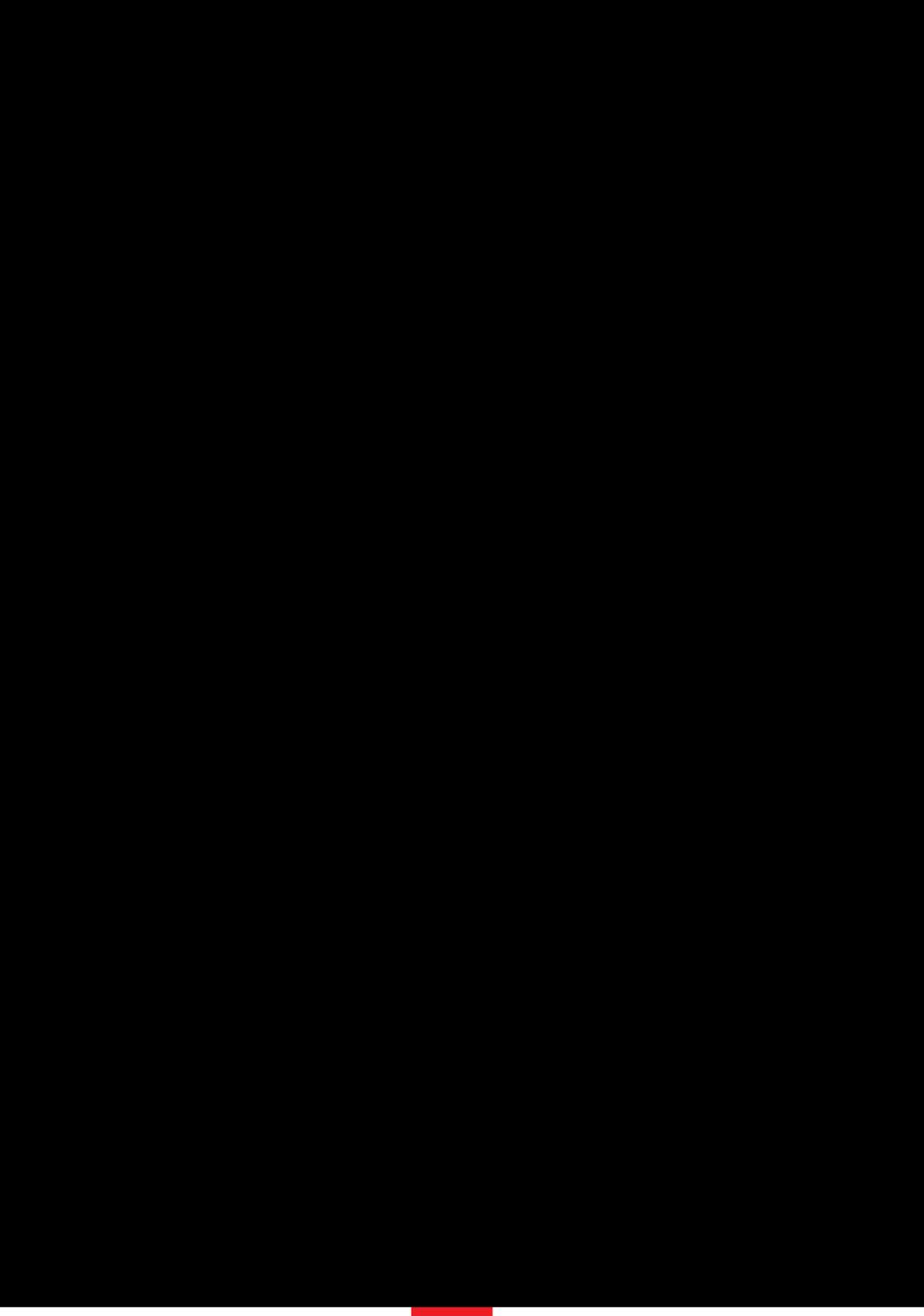
-
- BOS
-
-

3.1

- CT RJ45 2 2
- Amphenol MC4
-
- +

3.2

- 1.
- 2.
- 3.
4. 45°C
- 5.
- 6.
- 7.
8. 30MHz
- EMI
- 30m



3.4

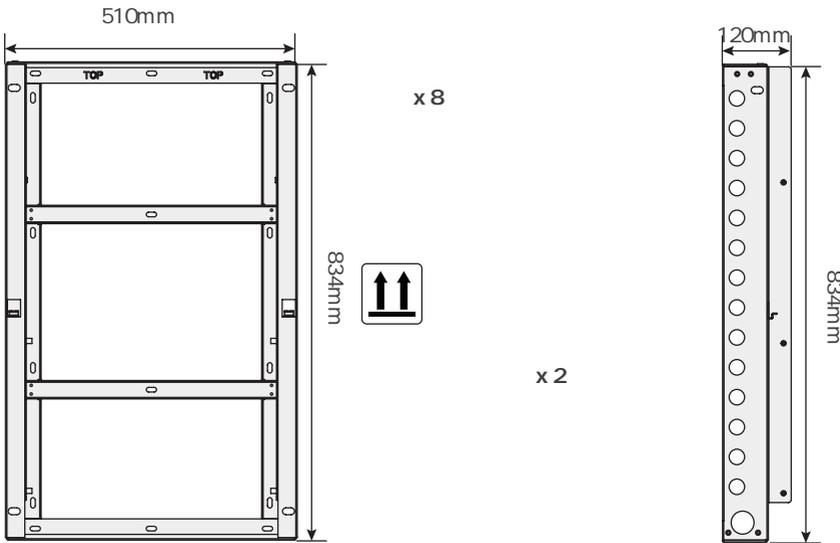
BCL0096

3.5

1206mm

BCL0096

" TOP "



5

3.6 BoS

BoS

BoS

6

3.7

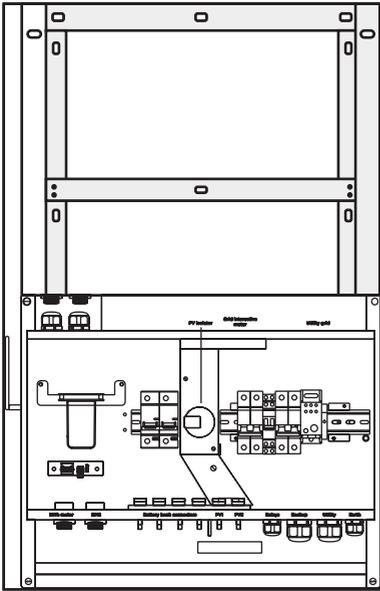


- BoS
-
-
-

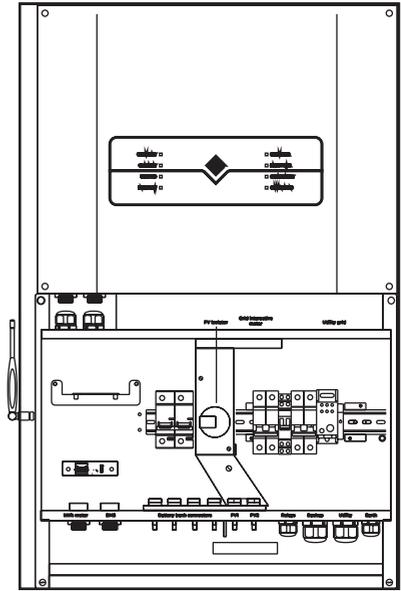
SMA

BoS 7 8

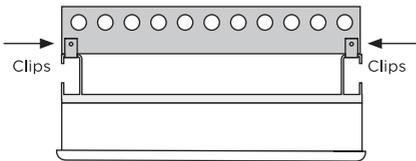
6



6 BoS



7



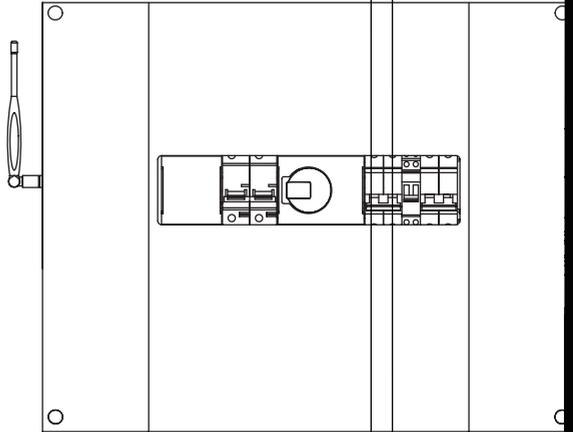
8

04

04

4.1 BoS

Bos

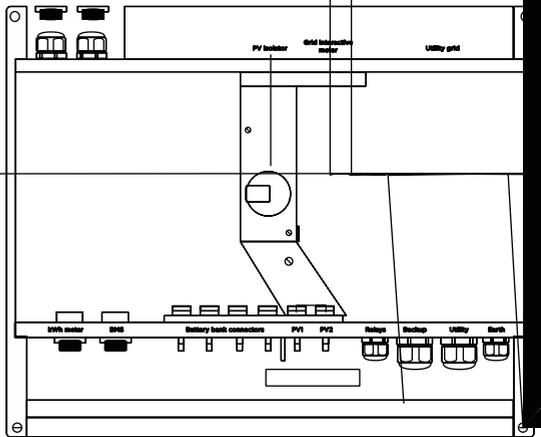


BoS

- 1. 4mm
- 2. 4

OFF

PV



9



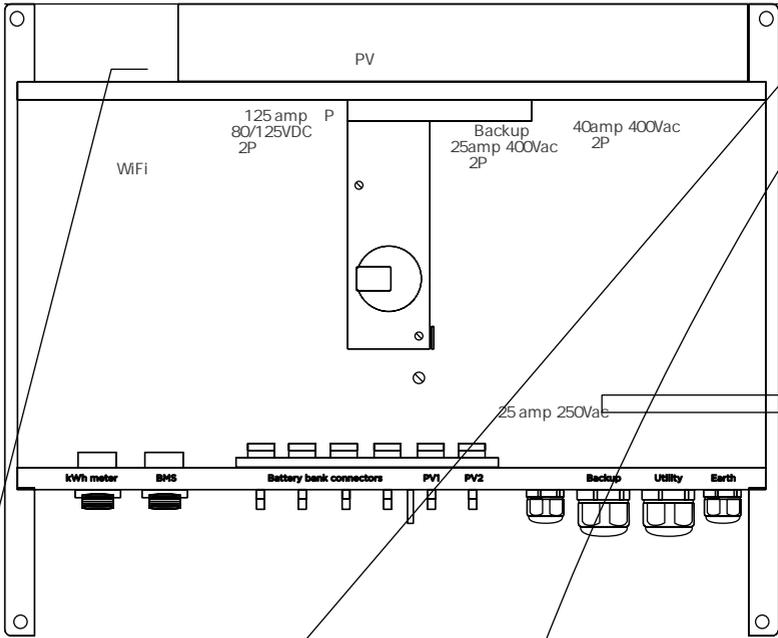
4.2 BoS

BoS

BoS

BoS

-
-
-



kWh

BMS

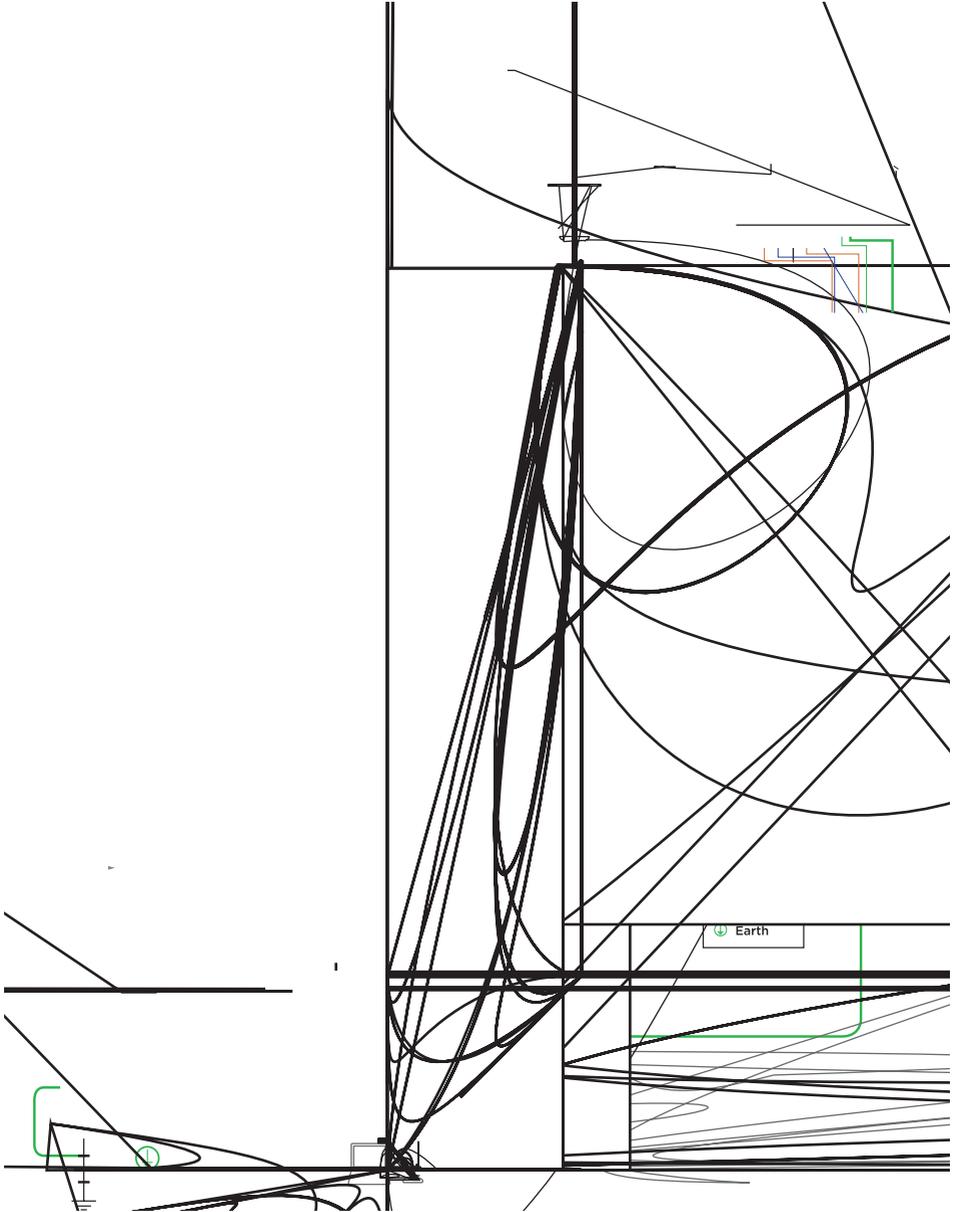
Amphenol MC4

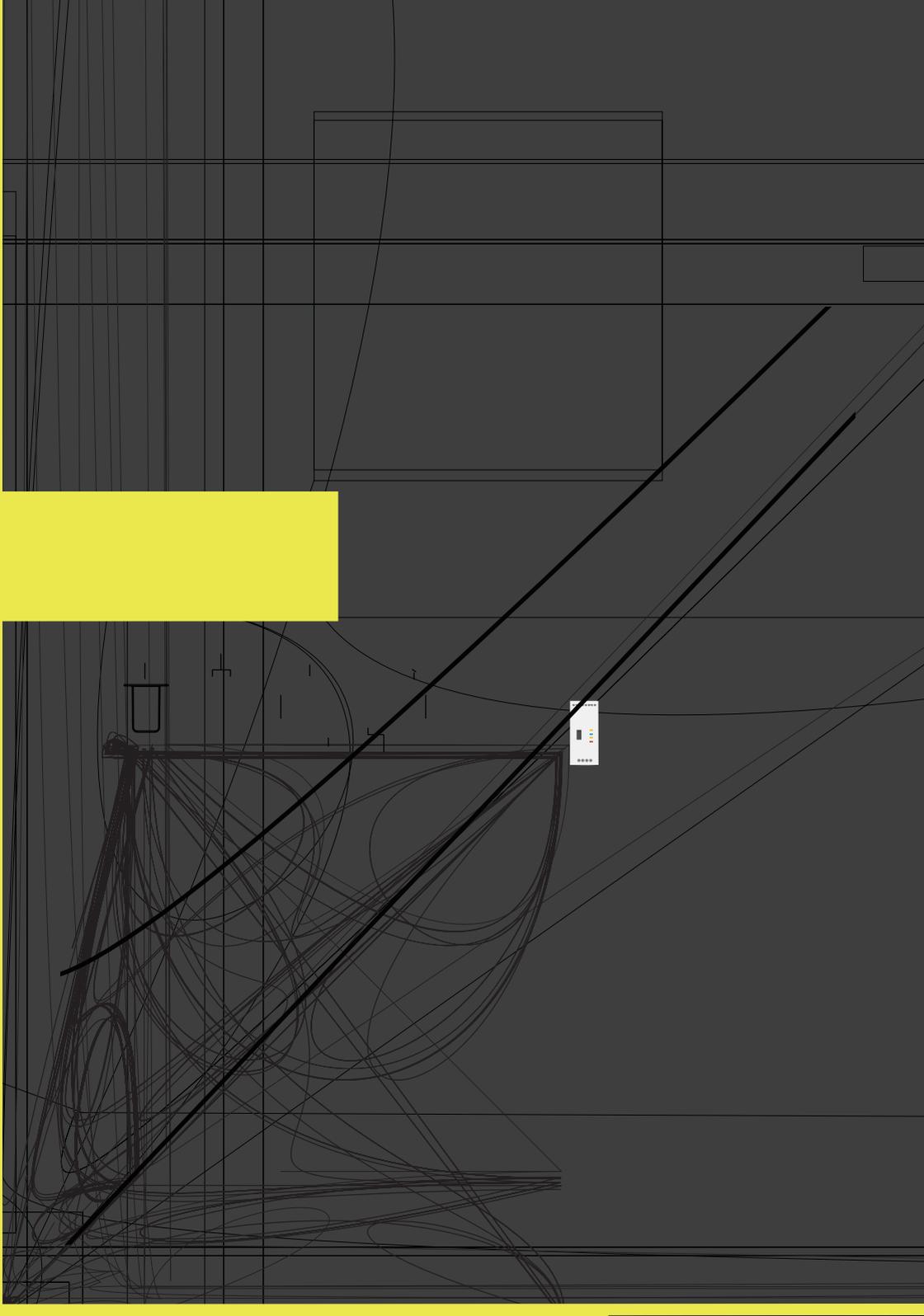
RS485

DRED

BACKUP

10



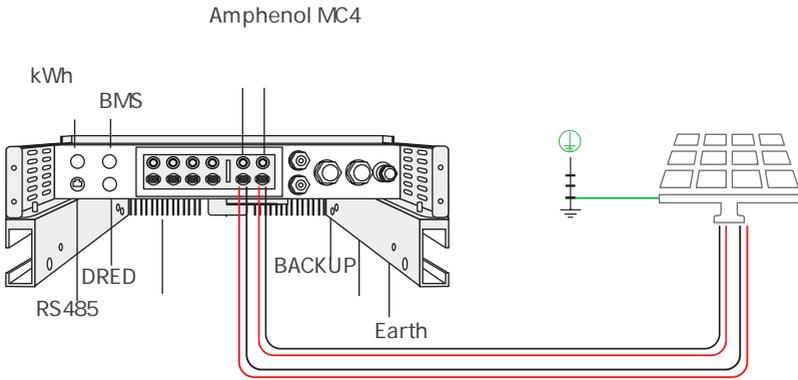


4.2.3



2-

1	4mm ²
2	4mm ²



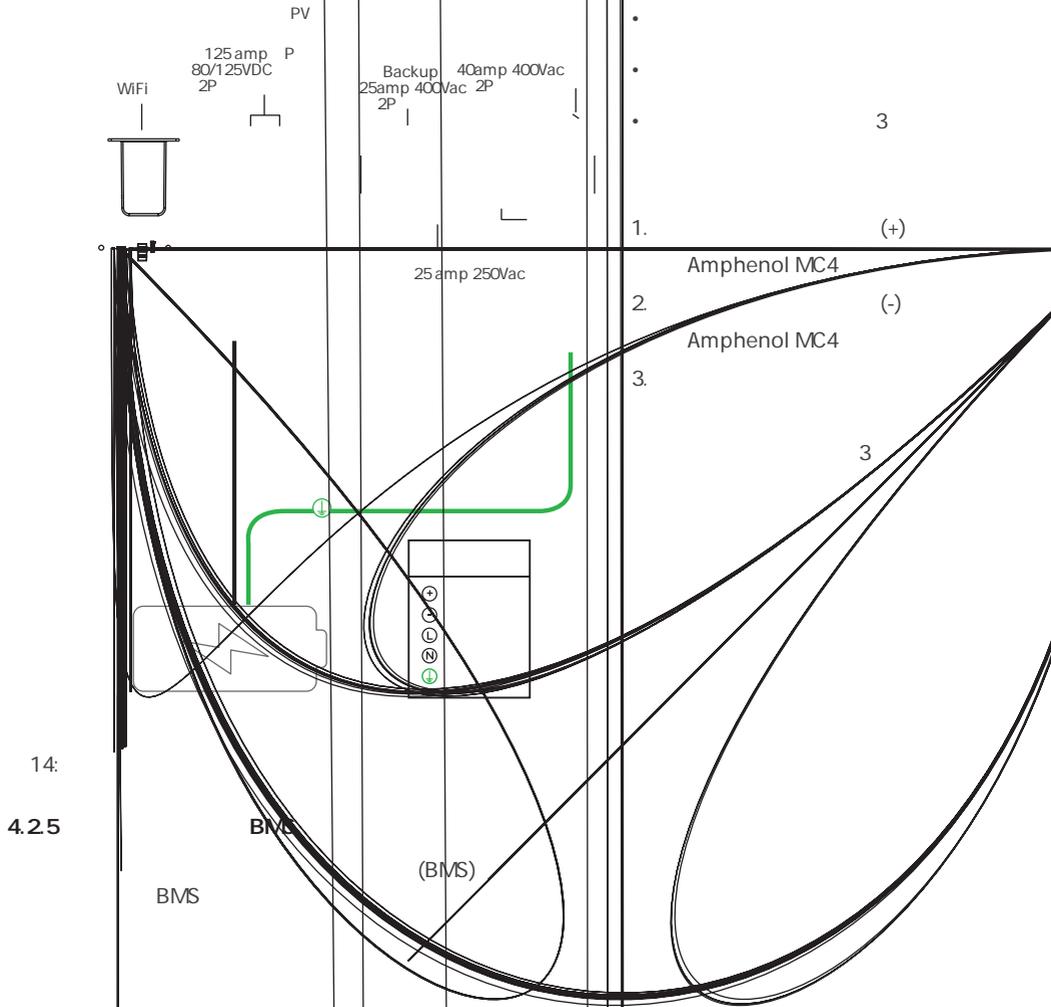
13

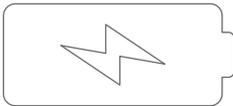
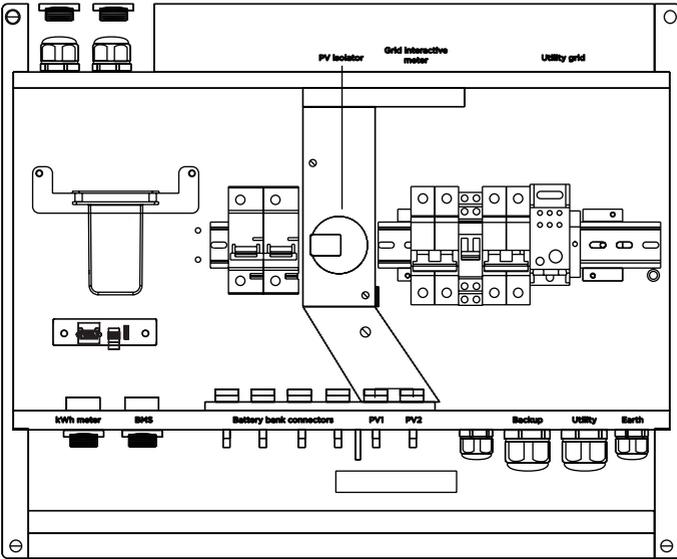
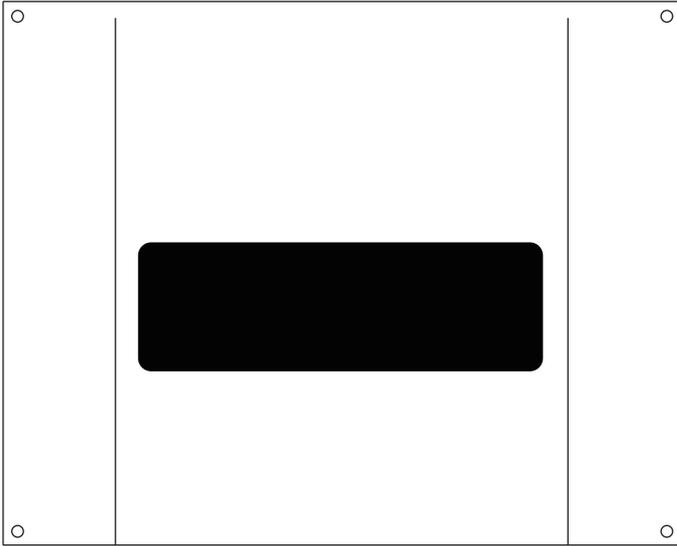
4.2.4



3-

10mm ²	MC4
16mm ²	3.5Nm





BMS

15: BMS



4.2.6

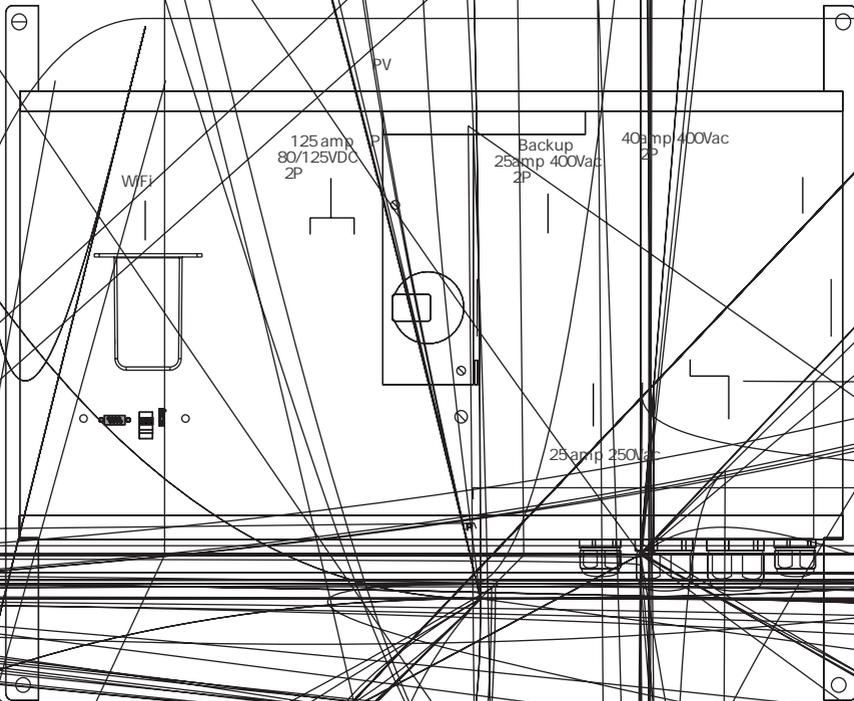
5-

16mm²

3.5Nm

16mm²

3.5Nm



04

o

o



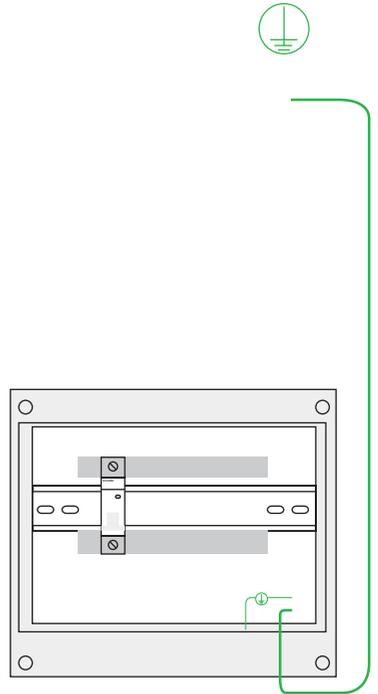
4.2.8 BACK-UP

Battery 125 amp per pole80/125VDC 2-pole circuit breaker

BACK-UP

- 1.
- 2.
- 3.
- 4.

- 1.
- 2.
- 3.
- 4.

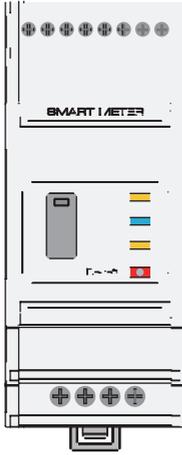


18 BACK-UP

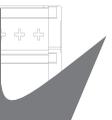
4.3

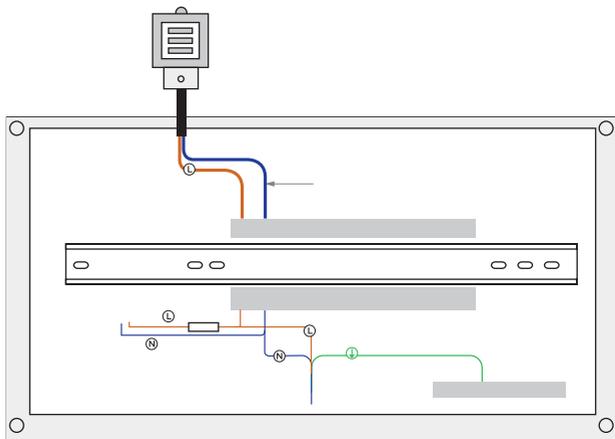
36

“ ”
RS485



- 19
- 1. LED2.
- LED3.
- LED4.
- 5. USB



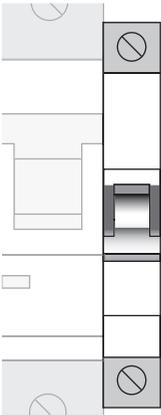


05

5.1

BoS

BACK-UP



21 BACK-UP (I)

22 (O)

22 (II)

(I)

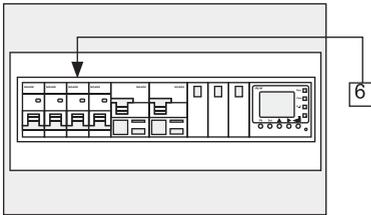
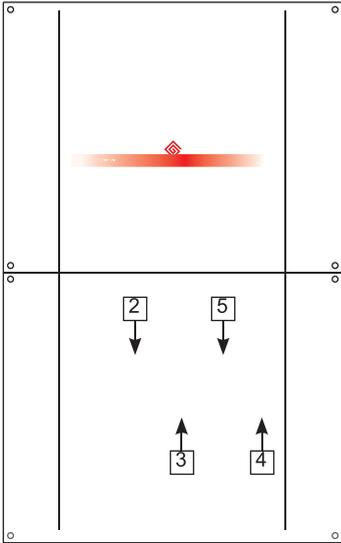
BACK-UP (I)

O

BACK-UP

BACK-UP

BACK-UP





5.4 LED

SYSTEM		=
		=
		=
BACK-UP		= BACKUP
		= BACKUP
SOLAR		= #1 #2
		= #1 #2
		= #2 #1
		= #1 #2
BATTERY		=
		=
		= /SOC
		= /
GRID		=
		=
		=
ENERGY		= /
		= /
		= /
		=
WiFi		= WiFi
		= WiFi
FAULT		=
		= BACKUP /
		=

06

WiFi

WiFi

WiFi

6.1 WiFi

- WiFi

- 1.
2. www.semsportal.com

1. Solar-WiFi*
 2. 10.10.100.253 admin
 3. " OK "

2. " Start Setup ",
 " OK "

Device information

Firmware version	1.6.9.3.38.2.1.38
MAC address	60:C5:A8:60:33:E1
Wireless AP mode	Enable
SSID	Solar-Wi-Fi
IP address	10.10.100.253
Wireless STA mode	Disable
Router SSID	WiFi_Burn-in
Encryption method	WAP/WAP2-PSK
Encryption algorithm	AES
Router Password	WiFi_Burn-in

A "cannot join the network" error may be caused by:
 No router, weak Wi-Fi signal, or the password is not correct

★ Help: The wizard will help you to complete setup within one minute.

Please select your current wireless network

SSID	AUTH/ENCRY	RSSI	Channel
<input type="radio"/> Wi-Fi_Burn-in	WPAPSK/WPA2PSK/TKIPAES	66	1
<input type="radio"/> Wi-Fi_Burn-in	WPAPSK/WPA2PSK/TKIPAES	100	1
<input type="radio"/> Wi-Fi_Burn-in	WPAPSK/WPA2PSK/TKIPAES	70	1
<input type="radio"/> Wi-Fi_Burn-in2	WPAPSK/WPA2PSK/TKIPAES	72	1

★ Help: When the RSSI of the selected Wi-Fi network is below 15%, the connection may be unstable. Please select another available network or decrease the distance between the device and router. If your wireless router does not broadcast its SSID, please click "Next" and manually add the wireless network.

3. " Next "
 2. " Complete "

Add the wireless network manually

Network name (SSID)	Wi-Fi-Test
Encryption method	WPA/WPA2-PSK
Encryption algorithm	AES

Please enter the wireless network password:

Password (8-63 characters)	Router password
<input type="button" value="Show psk"/>	

Note: The SSID and password are case sensitive. Please make sure all parameters of the wireless network match those of the router, including the password.

Save success!

Click "Complete", the current configuration will take effect after a restart.

If you still need to configure the other pages of information, please proceed to complete your required configuration.

The configuration is complete. You can now log on to the Management page to restart the device by clicking on the "OK" button.

Click Confirm to complete?



1. /
2. WiFi WiFi
3. SolarGo WiFi SolarGo APP

6.2 SolarGo

SolarGo App WiFi 4G GPRS
SolarGo

- 1.
- 2.
- 3.
- 4.

[https://www.goodwe.com/Ftp/user-manual/Solargo-](https://www.goodwe.com/Ftp/user-manual/Solargo-App.pdf)

[App.pdf](#) SolarGo



SolarGo App



SolarGo

6.3 CEI

CEI PV

PV Master App

PV Master

07

Utility Loss	
FAC failure	
PV over voltage	
Over temperature	
Isolation failure	
Ground I failure	
Relay-check failure	
DC injection failure	
EEPROMR/R failure	
SPI failure	
DC Bus high	
AC HCT failure	
GFCI failure	
VAC failure	
Battery over temperature	
Battery under temperature	
Battery cell voltage differences	
Battery over total voltage	
Battery discharge over current	
Battery charge over current	
Battery under SOC	
Battery under total voltage	
Battery communication failure	
Battery output short	
Over Load	BACK-UP



08

		GW5048-ESA
(kg)		37
x x mm		516x 1205x 280
		Wall Mounted
		IP54
*1		Li-Ion
(V)		48
(V)		40-60
(A)*1		90
(A)*1		100
(W)		4,600
(W)		4,600
		4
(W)		6,500
(V)		580
MPPT (V)		125-550
MPPT (V)		190-500
(V)		125
(V)		360
MPPT (A)		11/11 14/14 ⁶
MPPT (A)		13.8/13.8 17.5/17.5 ⁶
(A)		0
MPPT		2
MPPT		1
VA *5		5,000

VA ^{*2}	5,000
VA	9,200
VA	9,200
V	230
V	0-300
Hz	50/60
Hz	45-65
A	22.8
A	40.0
A	43@ 0.2s
A	60@ 3μs
	~1 (Adjustable from 0.8 leading to 0.8 lagging)
	<3%
a.c. or d.c.	30
VA	4,600
VA ^{*3}	4,600 (6,900@ 10sec)
A	20.0
A	20.0
V	230 (± 2%)
Hz	50/60 (± 0.2%)
@	<3%
	97.6%
	97.0%
	94.0%
MPPT	99.9%

*1						
*2	4600	VDE 0126-1-1	VDE-AR-N4105	NRS 097-2-1	5100	CEI 0-21 (GW5048D-ES)
*3						
*4	CAN		485			
*5	4600	VDE 0126-1-1 & VDE-AR-N4105 & NRS 097-2-1 & CEI 0-21				
*6						

09



VDE - AR - N 4105

IEC62109-1 Ed 1.0

IEC62109-2 Ed 1.0

IEC62040-1 Ed 1.0



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