

ELSR362-00002  
Q.HOME+ ESS-G1 3.6  
All-in-One Installation Quick Guide



Manual Download (Refer to Installation Manual)

- <https://www.q-cells.co.uk/service-support/download-area.html>

IP21

**CAUTION**

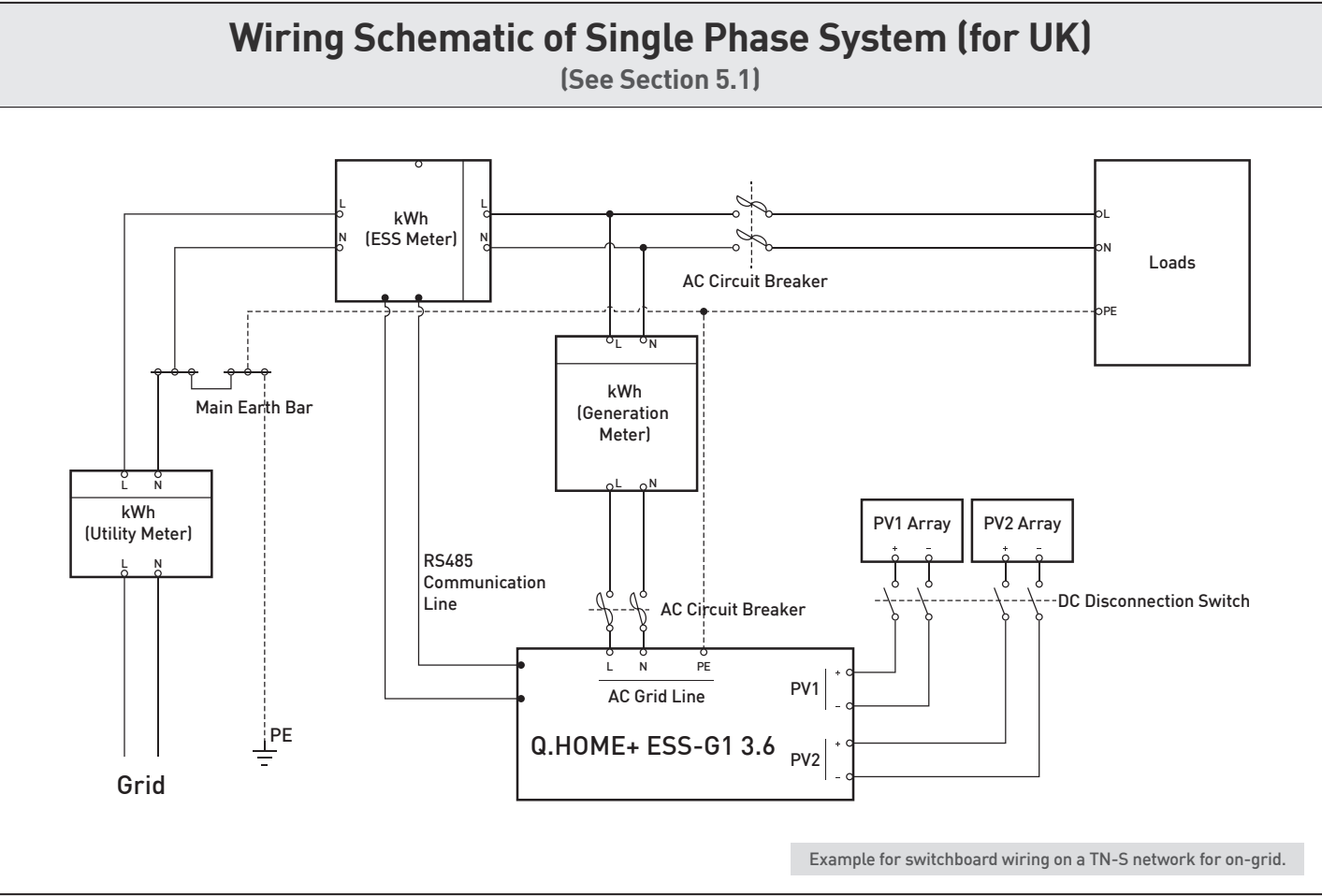
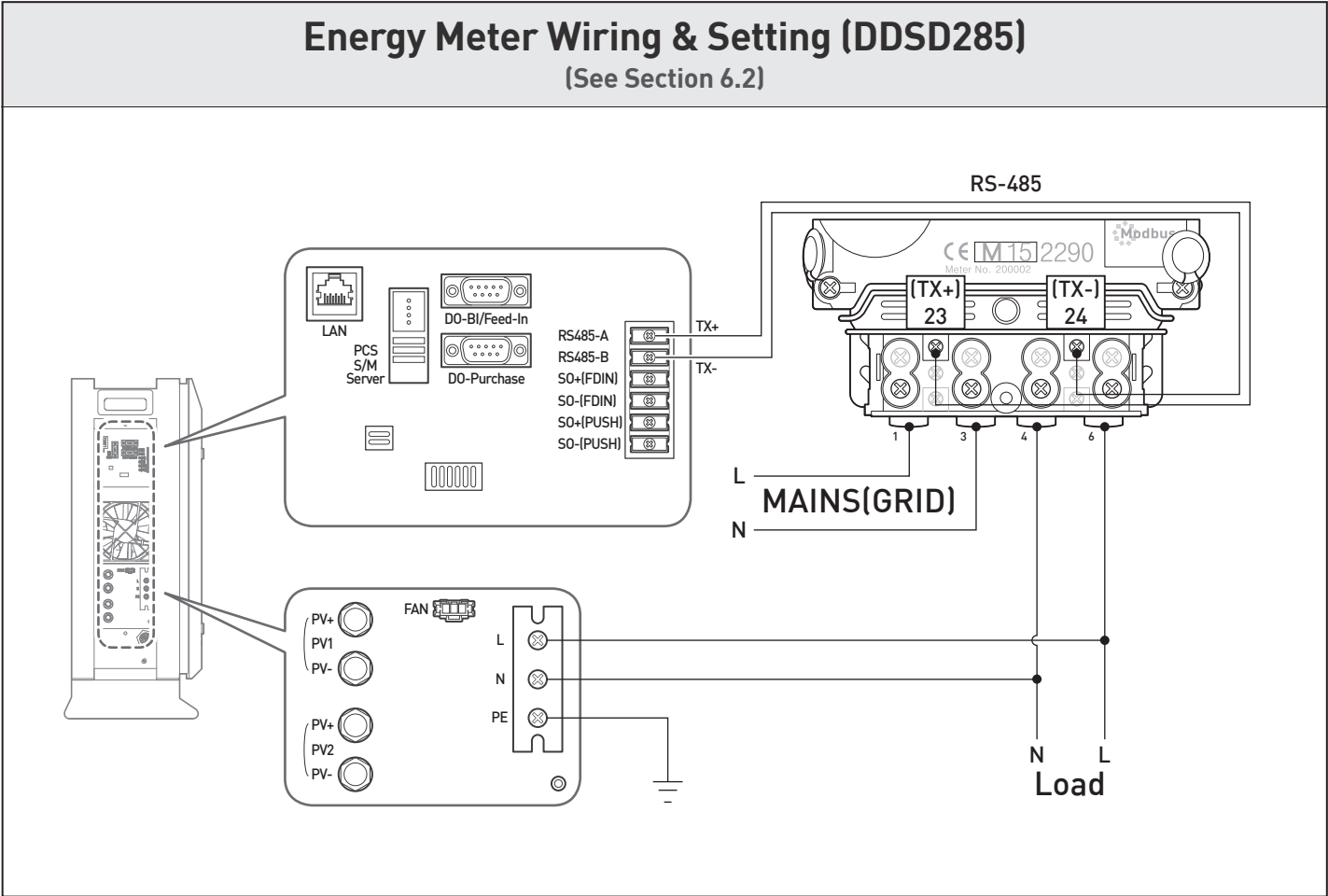
Included in this box are a battery and printed circuit board, and the entire weight amount to 95 kg. Therefore, special care must be taken in handling. Make sure to have at least two persons deliver and remove the package.

- Do not operate with other components not approved by the ESS systems.  
(Connecting other products in parallel to Hansol Technics's products may result in abnormal operation.)
- The internet connection is required to use all functions of the ESS system.
- If you have a problem, please contact the installer.
- The Specifications of the product may be modified without prior notice to improve product quality.

**CAUTION**

This warranty does not apply to the batteries that

- are not operated in accordance with the operating manuals for their intended purposes;
- have been incorrectly installed or commissioned;
- have been modified, altered or operated with other components not approved by Hansol Technics;
- have been physically damaged (e.g. damage from falls or transportation);
- have been damaged by force majeure (e.g. flash of lightning, overvoltage, storm, fire)
- have been treated improperly or negligently in an inappropriate way (including the use in non-recommended ambient conditions).



### Energy Meter Wiring & Setting (DDSD285)

(See Section 6.2)

1) Meter Type

2) D0, RS485-Bi/Feed-In

3) Modbus Address

Smart Meter Selection	
Meter Type :	D0, RS485 (Bi-Direction)
D0 - Meter Model Selection	
D0, RS485-Bi/Feed-In	5:EM24-DIN.AV9.3.X.IS.X[Gavazzi]
Modbus Address	1 (1~247 : *C2000 meter only) (Press button of C2000, to "1-0:0.0.10" field)

Meter (DDSD285)	Grid / All-in-One Connection
(1) Live In	L (Grid)
(3) Neutral In	N (Grid)
(4) Neutral Out	Load - N (Q.HOME+ ESS-G1 3.6)
(6) Live Out	Load - L (Q.HOME+ ESS-G1 3.6)
(13, 15) No Use	-
(20, 21) No Use	-
(23) TX +	RS485-A (Q.HOME+ ESS-G1 3.6)
(24) TX -	RS485-B (Q.HOME+ ESS-G1 3.6)

(DDSD285 Meter Setting)

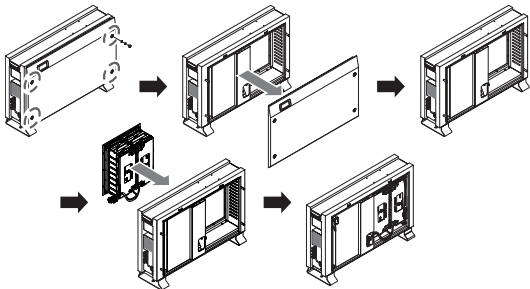
In case of DDSD285, it is NOT necessary to change the configuration at all.

(Q.HOME+ ESS-G1 3.6 Setting)

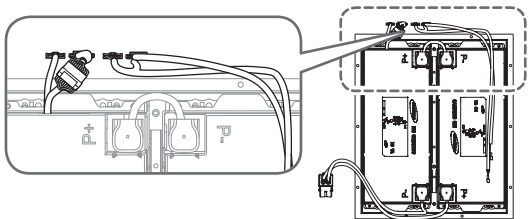
- Meter Type : "D0 (Bi-Direction)"
- D0-Bi/Feed-In : "10:C2000 (Autometers)"  
\* DDSD285 is compatible with C2000.
- Modbus Address : "1"  
\* Because the Modbus address of DDSD285 is set to "1" in factory, it is NOT allowed to change.

1. Battery Tray Assembly (See Chapter 3, Section 5.4)

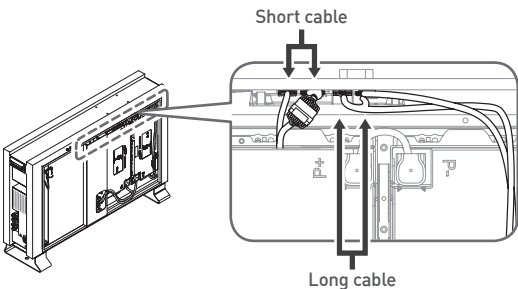
1) Below is a simplified illustration for assembling the battery tray.



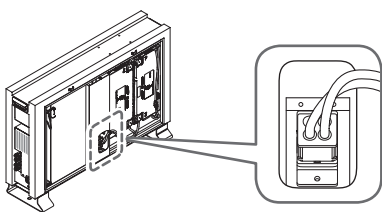
[Figure 1-1] Process for Battery Assembly



[Figure 1-2] Battery to BMS Connection



[Figure 1-3] Cable Stuff Method



[Figure 1-4] Battery Power Connection

- 2) Perform internal wiring.
- ① Connect the voltage and temperature measurement cables between BMS (on the top inside the enclosure) and Tray (4 connections).
  - ② Connect the power cables between Inverter and Battery Tray.

2. Connect PV, AC grid, and Energy meter (See Chapter 6)

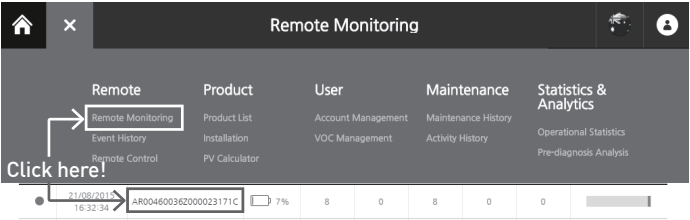
3. Installer Account: Use On-line/internet connection (See Section 7.3)

- 1) Open your mobile browser.
- 2) Input the URL:  
- <https://www.q-cells.co.uk/service-support/download-area.html>
- 3) After connection is made, click the “Go to Installer” icon.
- 4) Enter your ID and password in the login window.  
If you have no account, please join as a member.
- 5) Click the “Join Membership” link. Membership acquisition and completion.
- 6) After login, the main installer page appears select Product → Installation
- 7) Enter the product information and customer information. (Step 1 ~ 4, show in Figure 3-1, 3-2)

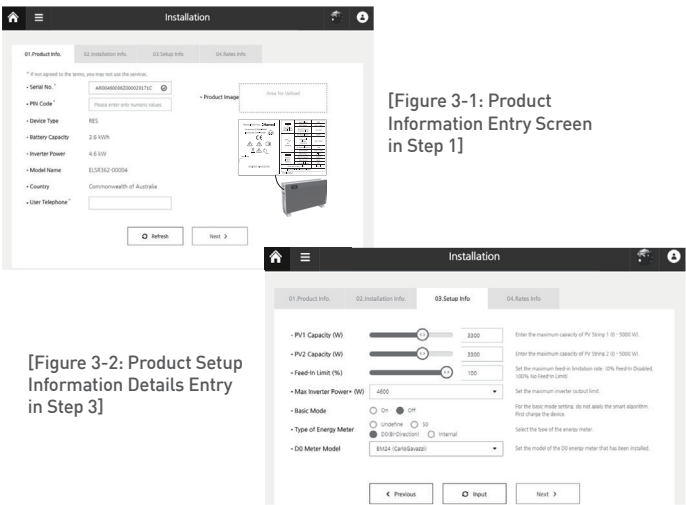
**NOTICE**

- PIN Code is a temporary password that has a-4-digit number created by the installer.
- This pin code must be delivered for user registration.

- 8) If it is saved successfully, you can see the success message.  
It may take 5 to 10 minutes.



\*example “AR00480036Z000023171C” test  
[Figure 3-3: Remote monitoring test]



[Figure 3-1: Product Information Entry Screen in Step 1]

[Figure 3-2: Product Setup Information Details Entry in Step 3]

- 9) In order to check operation status, perform the product test.  
For this purpose, select Remote → Remote Monitoring. (show in Figure 3-3)
- 10) When the installed product is in “Run,” click the product serial number.
- 11) On the product information page, Click the “Detailed Product Information” button.
- 12) On the “Product Details” page, click the “Product Operation Test” button.

4. Operating test (See Chapter 8)

5. User Account (Refer to User Guide)

- Input the URL <https://www.q-cells.co.uk/service-support/download-area.html>

[Figure 3-6] Initial setup page

MENU LIST

- Install Setting
- Operating Test

Install Setting Menu

Product Information

S/N : XXXXXXXXXXXXXXXXXXXX

Country : [United Kingdom] Region : [London]

Installed PV-1 Power : 3300 [W]  
(\* Range : 600 ~ 3300 W)  
(\* 0 W = PV-1 is not installed)

Installed PV-2 Power : 3300 [W]  
(\* Range : 600 ~ 3300 W)  
(\* 0 W = PV-2 is not installed)

Feed In Limit percentage : unlimited

Server IP : 14.34.15.211

Server Port : 80

\* [Server] The default setting is "14.34.15.211"-80"  
\* [Server] The alternative setting is "14.34.15.210"-10112"

Output Max Power : 4.6 kW

Smart Meter Selection

☐ Enable ☒ Disable

1st Start Time : 12 2nd Start Time : 23

1st End Time : 14 2nd End Time : 5

\* Input Range = 11:00-17:00 \* Input Range = 18:00-05:00

Smart Meter Selection

Meter Type : D0, RS485 (Bi-Direction)

D0 - Meter Model Selection

D0, RS485-Bi/Feed-In : 5-EM24-DIN AV9.3.X.IS.X(Gavazzi)

Modbus Address : 1 (1-247 : \*C2000 meter only)  
(Press button of C2000, to "1-0-0.0.10" field)

S0 - Pulse Count per 1kWh

1kWh Pulse Count : -None-

Date/Time Setting

Year/Month/Day : 2017 / 6 / 8

Hour/Minute/Second : 3 / 57 / 10

SAVE and ReSTART

1) Click here

2) For the max power per string

3) Do NOT change!

4) Select an Output max power : 3.6 kW or 4.6 kW

5) Do NOT change! : D0

6) Select an energy meter type : 10:C2000(Autometers)

7) Set the current local time and date

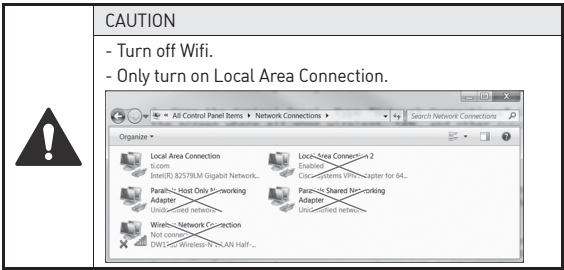
8) Click “Operating Test.”

9) After clicking “SAVE and ReSTART” on the top of the window a message saying “Wait for 1 Minute and press F5” will appear → follow the message

10) Click here

\* SIM (System Install Manager) Connection (See Section 7.4)  
: Use Off-line & Not an internet connection

- 1) Set on your laptop (shown in Figure 3-4).  
Control panel → Network and Sharing Center → Change Adapter Settings → Local Area Connector → Properties → Internet Protocol Version 4 (TCP/IP)



IP address: 17 . 91 . 23 . 1

Subnet mask: 255 . 255 . 224 . 0

Default gateway: 17 . 91 . 1 . 2

Internet Protocol Version 4 (TCP/IPv4) Properties

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

☐ Obtain an IP address automatically

☒ Use the following IP address:

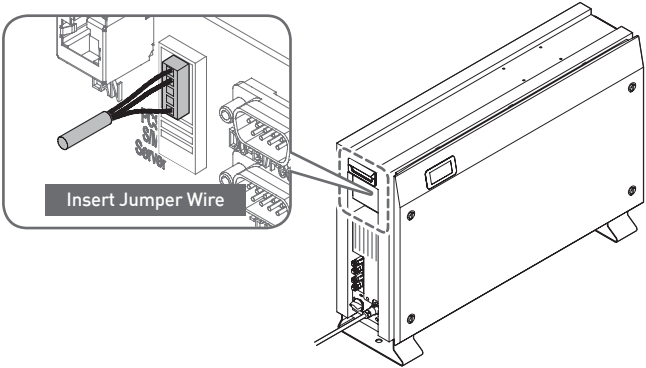
IP address: 17 . 91 . 23 . 1

Subnet mask: 255 . 255 . 224 . 0

Default gateway: 17 . 91 . 1 . 2

[Figure 3-4: Setting Laptop IP]

- 2) Connect the jumper to the connector.  
(\* Install Jumper is required, as shown in Figure 3-5.)
- 3) Connect the LAN cable between Q.HOME+ ESS-G1 3.6 and Laptop.
- 4) Turn the power On (AC grid On) and PV S/W On.
- 5) Access to SIM (System Install Manager) <http://17.91.23.196:8000>
- 6) Install the settings (shown in Figure 3-6).
- 7) Turn the power Off (AC grid Off) and PV S/W Off. → Remove Jumper Wire.
- 8) Connect Internet LAN Cable.
- 9) Turn the power On (AC grid On) and PV S/W On.
- 10) Operating test (See Section 7.4.5, chapter 8)



[Figure 3-5: Location of Jumper]