

(Eng) 08/2018 Rev01

Battery Pack #1

BAT

BMS

(CAN)

TN-S Network System (Single-Phase)

BAT

Q.HOME⁺ ESS HYB-G2

Hybrid PCS Installation Quick Guide



- 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).



Battery Pack #2

BAT

BMS

(CAN)

1. Battery Connections

Battery Pack #5

BAT

白白白白

BMS

(CAN)

白白



The order for assembling the INVERTER and Battery. Please follow the following steps.

1. Open the bottom cover of INVERTER and Battery case.







3. Connect the (+) and (-) wire (PCS) to the marked teminal (Battery). And then connect the ground terminal. (See Chapter 5.8.4)





5. Connect Battery communication cable. If you use more than one Battery (8kwh or more), use the adaptor (Amphenol) for Battery communication. (EX. If you use 3 Battery, you need 2 adaptor for BMS communication.)

When using the adaptor, hold the communication cable and faster the silver color of the adaptor to anticlockwise.



6. Change the switch on.



7. Close the bottom cover of INVERTER and Battery case.



2. Check inner circuit breaker and terminal in Battery case.



3. Installer Account : Use On-line / Internet connection

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1) Open your mobile browser.

- 2) Input the URL : https://myess.hansoltechnics.com
- 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 \rightarrow Installation.
- 7) Enter the product information and customer information.(When you select a country at Product Info, it is automatically set to
- the country-specific default setting.)

CAUTION

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.

- 9) In order to check operation status, perform the product test. For this purpose, select Remote → Remote Monitoring. (show in Figure 3-2)
- 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.



*example HSHP4607210000001

[Figure 3-2 : Remote monitoring test]

	Instal	lation					
01. Product Info.	02. Installation Info.	03. Setu	p Info	04. Rates Info			
* If not agreed to the terms, y	* If not agreed to the terms, you may not use the services.						
- Serial No.	HSHP4601Z100000	001 (V	Product				
- PIN Code	1234	(V)	Image				
- Device Type	RES						
- Inverter Power	8 kW						
- Model Name	HSHP4601	•					
- Country	United Kingdom						
- User Telephone	012-3456-7890	0					
- Battery1	B62842642684D682	464					
- Battery2	B62842642684D682	465					
- Battery3							
- Battery4							
- Battery5							
				•			
	Refresh	Nex	t				
- Product Info	_						

a) Input Product S/N

- b) Input random PIN Code (Delivered for user registration)c) Select Country
- (Automatically set to the country-specific default setting) d) Input user's Telephone number
- e) Input Battery S/N (Enter the number of installed boxes)f) If the entered value is correct, click the Next button

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

Ballery Installation	1 Process 2					
MENU LIST	Install BMS	Install BMS Setting Menu				
BMS Setting	Count of Bate	B ry RACKs : [MS Rack Install Setti	ing E	ENTER	
Install Setting	Rack 1	ID = 0X2	Configure ID !!!	Status	Done	
Operating Test	Rack 2	ID = 0X1	Configure ID !!!	Status	NOP	
	0X1 3020000	BMS CAN I	BMS Test D	C	OUNT	

MENU LIST	Install BMS Setting Menu						
		В	MS Rack Install Setti	ing			-
BMS Setting	Count of Bater	ry RACKs : [-2- V	E	INTER		
Install Setting	Rack 1	ID = 0X2	Configure ID !!!	Status	Done		
]	
Operating Test							
operating rest		4					
		BMS CAN II	D	C	OUNT	4	
	0X1 3020000			1		-	
							-
			SAVE BMS ID				
						1	

4. Installing

[Germany] HSHP-4601

Battery Install		
MENU LIST	Install BMS Setting Menu	• 1) Click here.
BMS Setting	BMS Rack Install Setting Count of Batery RACKs : Count of Batery RACKs :	• 2) Select the number of batteries you want to install.
Install Setting		
Operating Test		

Battery Installation Process 1



ing motatia	lion	1100055		
	_			
MENU LIST		Install Setting Menu		
			Country / Region Information	
BMS Sotting		S/N ·	HSHP/601710000001	
DHS Setting		Country Germany V	Region-Berlin V	
			Country / Region Config	
nstall Setting	1			
-				
	_			
··· -				
perating les	it		Product Information	
			2200 [W]	
	-	Installed PV-1 Power :	* Range : 1000 ~ 3300W	
		Instatted FV-1 Fower :	* "0" : the PV 1 is not installed	
			3300 [W]	
		Installed PV-2 Power :	* Range : 1000 ~ 3300W	
			* "0" : the PV 2 is not installed	
			(2 [%]	
		Installed PV-1 Power -	* Range : 0 ~ 100 (%)	
		instatted i v i i owei .	* 100(%) means "No-Limit Feedin"	
			* 0(%) means "No Feedin"	
		Automatic Operation type Smart Mode O Basic Mode		
		Automatic operation type	[* The "Smart" type is more advanced Algorithm.]	
		Sleep-Mode	O Enable	
			Battery Count : 1	
		PMS External Mode Enable	O Enable O Disable	
		Backup Mode	O Enable O Disable	
		Islanding Mode	O Enable O Disable	
			Feed in Relay Setting	
		Feed In Relay	O Enable Uisable Uisable Uisable	
		Relay 1 Attach Level :	(* Range : 0 ~ 6000W)	
			1500 [W]	
		Relay 1 Detach Level :	(* Range : 0 ~ 6000W)	
		Relay 2 Attach Level :	2000 [W]	
		, · · · · · · · · · · · · · · · · · · ·	(* Range : 0 ~ 6000W)	
		Relay 2 Detach Level :	[* Range : 0 ~ 6000W]	
			3000 [W]	
		Relay 3 Attach Level :	(* Range : 0 ~ 6000W)	
		Relay 3 Detach Level :	3500 [W]	
			[* Kange : 0 ~ 6000W]	

[Figure 4-1 : Initial setup page block 1]



[Figure 4-3 : Initial setup page block 3~4]

1) Set the current local time and date.

 After clicking "SAVE and RESTART" on the top of the window a message saying "Wait for 2 Minute and press F5" will appear → follow the message.

3) Click "Operating Test".

- 1) Conversely, if the Battery installation is completed, the following screen will appear.
- 2) Then press the following button to complete the Battery installation.

- 2) Select a Country and Region.
- 3) Click here.
- * When you Press the button, the screen changes as shown below.
 Then proceed as described in the following.
- 4) For the max power per string.
- 5) Select a Feed in Limit percentage.
- 6) Select the number of installed batteries.
- 7) Select 3rd Party Connect Enable / Disable. (Like as : KIWIGRID, Solar-log)
- 8) Enable when the Battery is need to emergency Charging mode (Use Jumper as much as).
- 9) Select Enable Independent Operation Function.
- 10) Enter the value for the Feed in Relay setting.

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

- 1) Set on your laptop (shown in Figure 4-4).
- $\mathsf{ControlPanel} \to \mathsf{Network} \text{ and Sharing Center} \to \mathsf{Change adapter settings} \to \mathsf{Local Area Connector} \to \mathsf{Properties}$
- \rightarrow Internet Protocol Version 4 (TCP/Ipv4)



2) Connect the jumper to the connector. (* Install Jumper is required, as shown in Figure 4-5.) 3) Connect the LAN cable between Q.HOME+ESS HYB-G2 and Laptop.

- 3) Connect the LAN cable between U.HUME+ESS H
- 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) Turn the power Off (AC Grid Off) and PV S/W Off. Remove Jumper Wire.
7) Connect Internet LAN Cable.

8) Turn the power On (AC Grid On) and PV S/W On.



[Figure 4-5 : Connecting Short Bar]

5. User Account (Refer to User Guide)