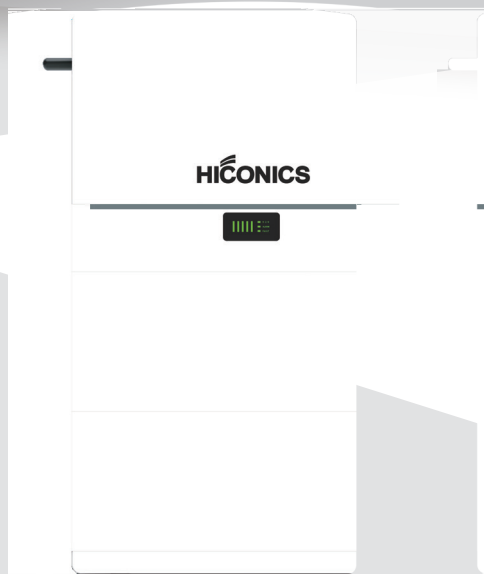


HICONICS

HEC2 SINGLE PHASE RESS USER MANUAL



EXCLUSION OF LIABILITY

ERGY DRIVE TECHNOLOGY CO., LTD.

HICONICS ECO-EN-

GENERAL NOTE ON GENDER EQUALITY

CONTENTS

1 Notes on this Manual

2 Safety

3 Introduction

LED Lights Display Define

3.6.1 Battery System LED Display Define

4 Installation

5 Electrical Connection

6 System Operation

7 Plant Monitoring

8 Maintenance and Troubleshooting

9 Fault Information

10 Packaging, Transportation, Storage

1 Notes on this Manual

1.1 Scope of Validity

Configuration	
Inverter	
ESS	

equipment You will find a detailed EU Declaration of Conformity in the download area at:

2 Safety

2.1 Notes on This Manual Explanation of Symbol

Symbol	Explanation
	CE mark.
	





2.2 Important Safety Instructions



Danger!

be carried out by qualified electrician



Caution



Notice

**Warning!**

Ensure that input DC voltage $\leq$ Max. DC voltage. Over voltage

**Warning!****Warning!****Warning!**

here, otherwise may result in a risk of fire, electric shock, or injury to

yourself, may result in a risk of electric shock or fire and will void your

Keep away from flammable, explosive materials to avoid fire.

Anti-Islanding Effect

PE Connection and Leakage Current

$\leq 240\text{mA}$ which automatically disconnects the device in case



Warning!

For United Kingdom

For Australia and New Zealand

Battery Safety Instructions

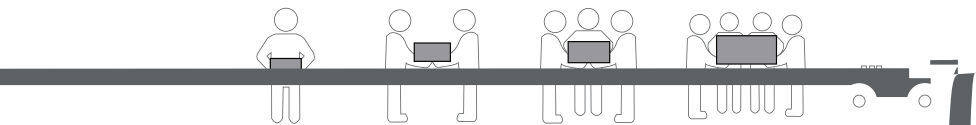
system, for the specific parameters such as battery type, nominal



Notice

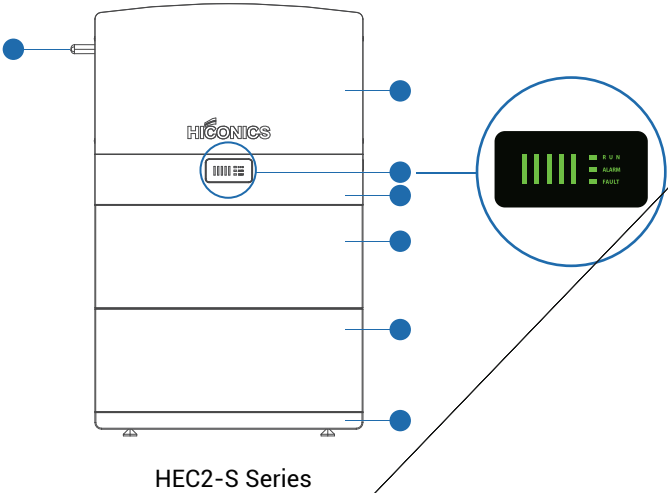
has occurred. Users need to configure buzzer alarm

2.3 Handle Heavy Loads Safely

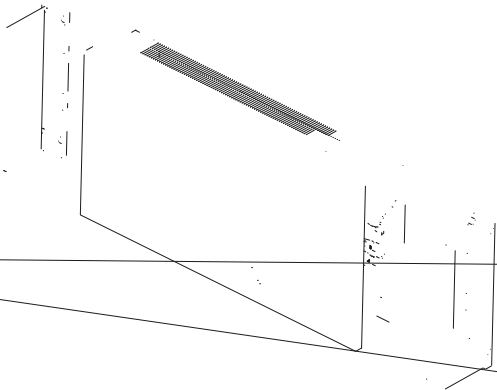


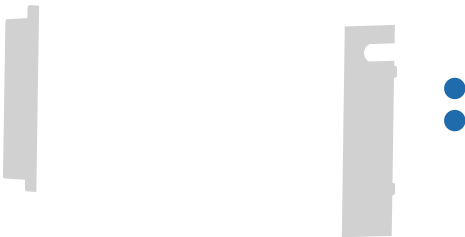
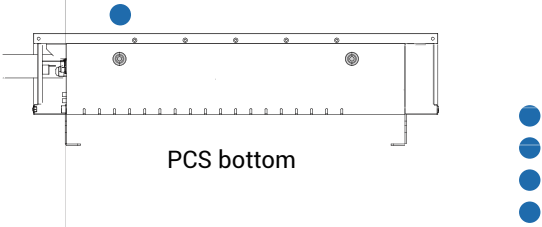
When carrying the equipment by hand, first approach the object

3.4 System Appearance

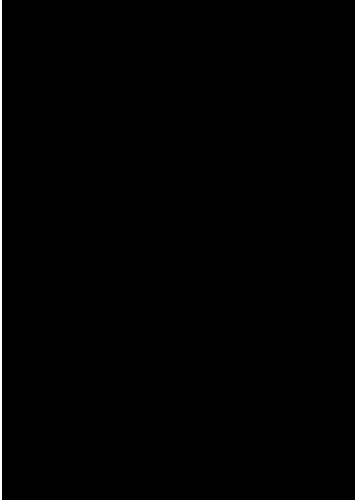


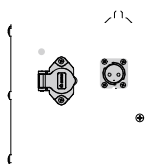
3.5 Wiring Port Part





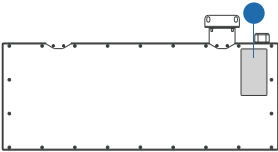
PCS WIFI Interface:



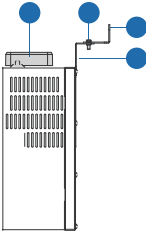


3.5.3 Battery Pack



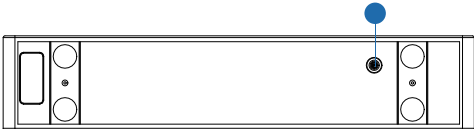


Back view



Battery right view

3.5.4 Base



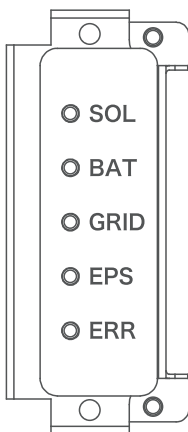
Base bottom view





Type	On	Off
Blinking1		
Blinking2		
Blinking3		

3.6.2 Inverter LED Indications

[illegible]

4. Installation



Notice

4.1 Check for Physical Damage

4.2 Equipment Installation

>

℃

℃



4.2.1 Requirements

Position	

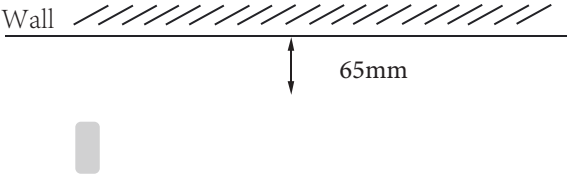


4.3 Installation Process

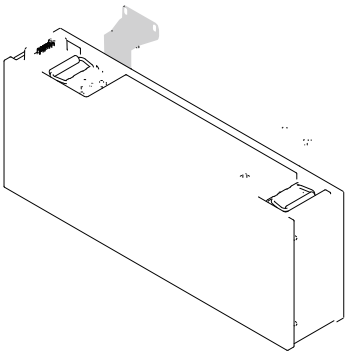
4.3.1 Battery Pack Installation

conflicts with the regulations, the regulations must be met first.

Step 1:

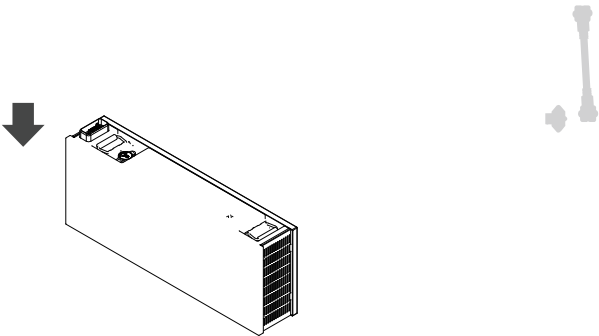


Step 2:



Step 5:





2 battery modules in series

5.2 PV Connection



-
- It is very important for system safety and efficient operation to use appro

Wire Size	Cable(mm ²)
-----------	-------------------------



•

.

)

)

Connection Steps:

Step 1:

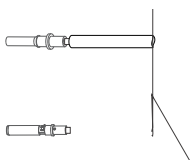
pole of PV to earth should be MΩ level.

Step 2:



Step 3:

Step 4:



Step 5:

5.3 AC Input/Output Connection

Table Cable and Micro-breaker recommended



Warning!

Required for installation.

Installation tools



a:



	Outer diameter of wire	Ø Ø
	Bare wire length	
	Wire length	

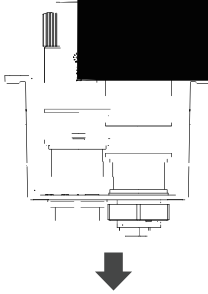
- : CAUTION: NOT FOR INTERRUPTING CURRENT” and “ATTENTION: NE PAS UTILISER POUR COUPER LE COURANT”
- : "Not for Current Interrupting"

b:

:

~6mm²) 1.0+/-0.1N·m (≤ 2.0mm²)

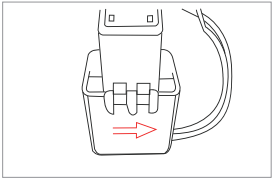
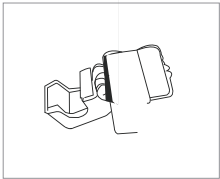
Plate end to unlock ins



your finger or a flathead screwdriver



Note:

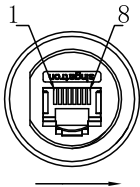




Notice

5.4.2 DRM Port Connections (Optional)

Pin	Description	Pin	Description



*Refer to 5.4 for wiring sequence.

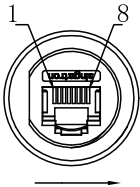
Interface Description

Mode	Pin	Description

5.4.3 COM/LCD Interface

Pin	Description	Pin	Description

**Refer to 5.4 for wiring sequence.*

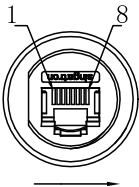


Interface Description

5.4.4 PARALLEL(INV) Interface

Pin	Description	Pin	Description

**Refer to 5.4 for wiring sequence.*



Interface Description

5.5 External Smart Meter (optional) Connection

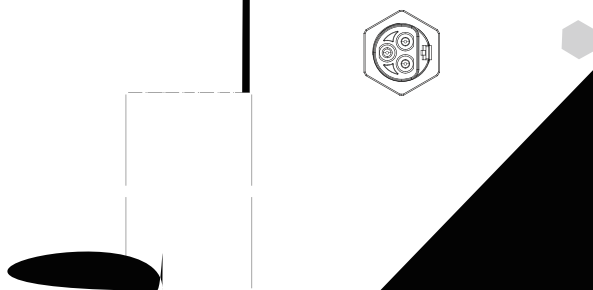
PROCEDURE

STEP1:

STEP2: Selection of a suitable position location for fixing the DIN track, Mount the Meter

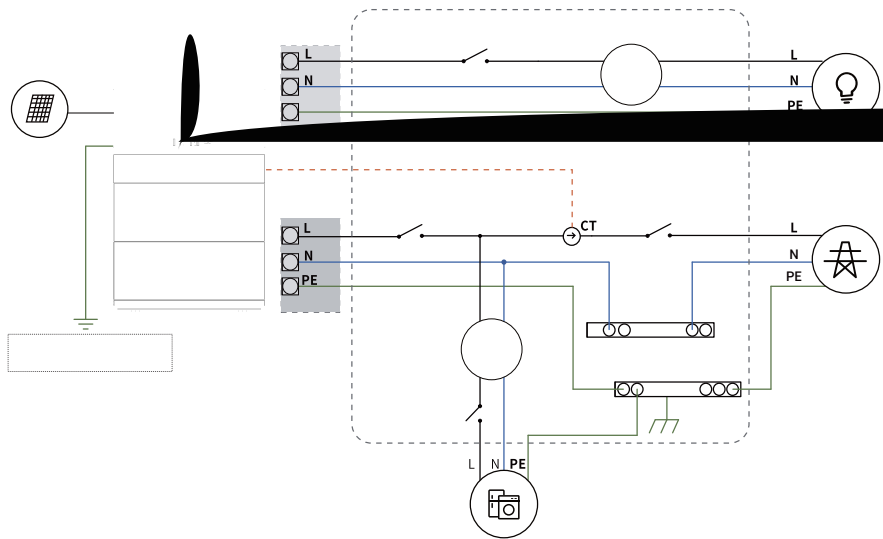
STEP3: Installation of CT. Refer to the introduction of CT installation for specific steps.

STEP4:



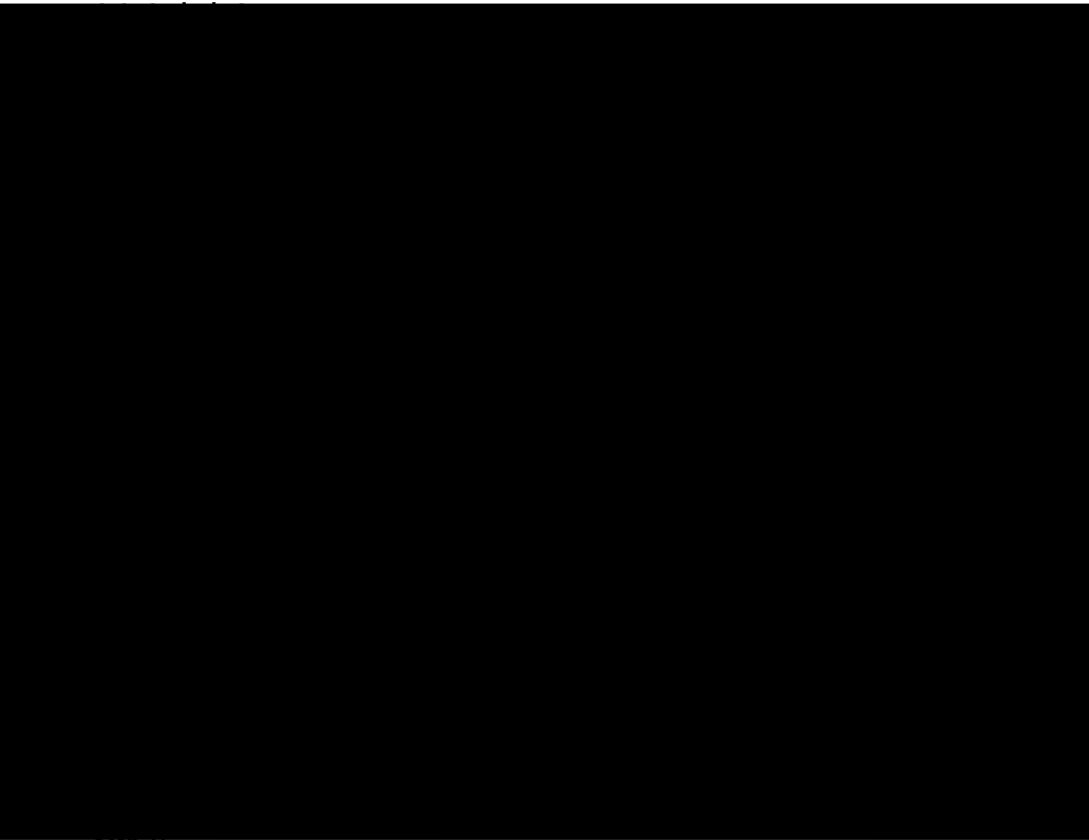
5.6 Earth Fault Alarm C

5.7 Wiring Diagram



PE grounding:

6 System Operation



Step 2:

Step 3:

Step 4:

6.2 Switch Off

Step 1:

Step 2:

Step 3:

7 Plant Monitoring

7.1 Download SOLARMAN APP

SOLARMAN Business APP:



SOLARMAN Business APP

SOLARMAN Smart APP:

Note:

Note: For detailed configuration procedures, please log in

<https://www.hiconics.com/en/product/product-detail/prod-detail?productId=100448>
for the latest "HICONICS Generation 2 (Hienergy) SOLARMAN Configuration Guide".

8 Maintenance and Troubleshooting

8.1 Maintenance Before Operation

8.2 Maintenance During Operation

are firm, and check whether the dust net, fan, power module, terminals and other parts are

C

Note:

9 Fault Information

9.1 System Fault Information

NO.	Fault name	Solution
-----	------------	----------

9.2 Inverter Fault Information

NO.	Fault name	Solution
-----	------------	----------

50k Ω . If no, check the short circuit point.

10 Packaging, Transportation, Storage

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Annex 1: Inverter Parameter Table

Technical Data	HEC2-S6.0Hr2	HEC2-S5.0Hr2	HEC2-S3.8Hr2	HEC2-S3.68Hr2 ^[7]
PV Input				
				[3]
	[5]			
BAT Side				
				[4]
	[2]			
AC Grid Side(On-grid)				
	[1]	[1]		
	[1]	[1]		
	[1]	[1]		
	[1]	[1]		
		[6]	[6]	[6]
		[6]	[6]	[6]



EPS Side

[illegible]

EFFICIENCY

MPPT efficiency				
Euro efficiency				
Max.efficiency				
Battery charge/discharge efficiency				

ENVIRONMENT LIMIT

A blank sheet of white paper with horizontal blue ruling lines. A vertical red margin line runs down the left side of the page.

Remark:

[2]

[4]

[6]

Annex 2: Battery Parameters

Certificate () ()

Certificate

HICONICS

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