



Cygni Series USER MANUAL

Energy Storage System
Cygni8.0HS-M2/M3/M4/M6/M8/M9/M12
Cygni10.0HS-M2/M3/M4/M6/M8/M9/M12



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About APP

Install





Download on the

App Store

Download on the

Google Play

Operation



*Maximum operating voltage is 600V.

According to the local grid regulation

Can be reached only if PV and battery power is enough



Statement of Law

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This product complies with the design requirements of environmental protection and personal safety. The storage, use and disposal other products shall be carried out following the product manual, relevant contract or relevant laws and regulations.

Customers can check the related information on the website of Dyness Digital Energy Technology Co., LTD. when the product or technology is updated.



1 Note On This Manual

Applicable Model

Model

This manual applies to the listed products below:

Cygni Series: Inverter & Battery pack

Cygni 8.0HS-M2 Cygni 8.0HS-M3 Cygni 8.0HS-M4

Cygni 10.0HS-M2 Cygni 10.0HS-M3 Cygni 10.0HS-M4

Model description



No.	Referring to	Explanation
1	Equipment Type	Cygni: Product Series
2 Rated Power		8.0: the rated power is 8kW
		10.0: the rated power is 10kW
3	Category	HS: Hybrid Single-phase product
4	Battery Pack No.	M2: the number of Battery pack is 2
		M3: the number of Battery pack is 3
		M4: the number of Battery pack is 4
		M6: the number of Battery pack is 6
		M8: the number of Battery pack is 8
		M9: the number of Battery pack is 9
		M12: the number of Battery pack is 12

Target Group

About this manual

DYNESS Cygni series product acts as an energy management controller in residential solar+storage system. Cygni Hybrid is mainly for initial-installations and Cygni AC Couple mainly for retrofittings or stand-along battery systems.

It mainly describes the information and guidelines for installation, operation and maintenance of Cygni systems in this manual, which cannot include complete information about the photovoltaic (PV) system.

Target Group

This manual is intended for:

• Qualified personnel who are responsible for the installation and commissioning of the product;

DYNESS Cygni User Manual

• Product owners will have the ability to interact with the product.

How to Use This Manual

Read the manual and other related documents before performing any operation on the product. Documents must be stored carefully and be available at all times.

Contents may be periodically updated or revised due to product development. The information in this manual is subject to change without notice. The latest manual can be acquired at www.dyness.com.

Symbol Definition

The Cygni series has been designed and tested strictly according to international safety regulations. Read all safety instructions carefully before any work and observe them at all times when working on or with the product. Operation and maintenance, as any improper operation might cause personal injury or property.



DANGER indicates a hazardous situation which, if not avoided, may encounter profound injury or even death.



WARNING indicates a hazardous situation which, if not avoided, could result in death or critical injury.



CAUTION indicates a hazardous situation which, if not avoided could undergo a life-threatening injury.



2 Safety

Safety Instructions

- Contents may be periodically updated or revised due to product development. The information in
 this guide is subject to change without notice. In no circumstances does this guide serve as a
 replacement for any accompanying notes pertaining to the device.
- Make sure to read over, fully understand and strictly follow the detailed instructions of the user
 manual and other related regulations before installing the equipment. The user manual can be
 downloaded by visiting the website at www.dyness.com; or it can be obtained by scanning the QR
 code on the side of the equipment or the back cover of this guide.
- All operations can be performed only by qualified personnel that must be trained for the installation and commissioning of electrical systems, as well as dealing with hazards, knowing the manual and the local regulations and directives.
- Before installation, check that the package contents are intact and complete compared to the
 packing list. Contact DYNESS or the distributor in case of any damaged or missing components.
- The cable used must be intact and well-insulated. Operation personnel must wear proper personal protective equipment (PPE) all the time.
- Any violation could result in personal death or even device damage and will void the warranty.

Safety

The product has been designed and tested strictly according to international safety regulations. Read all safety instructions carefully before any work and observe them at all times when working on or with the product. Incorrect operation or work may cause:

injury or death to the operator or a third party; damage to the product and other properties.



WARNING

Any installation or operations on the product must be performed by qualified electricians in compliance with standards, wiring rules and the requirements of local grid authorities or companies Never insert or remove the AC or DC connections when the product is running. Before making any wiring connections or performing electrical operations on the product, all DC and AC power must be disconnected from the product for at least 5 minutes to ensure that the product is totally isolated to avoid electric shock.

The temperature of the product surface can exceed 60°C during operation. Ensure it has cooled down before touching it, and the product is out of reach of children. Do not open the product cover or change any components without the manufacturer's authorization. Otherwise, the warranty for the product will be invalid. The usage and operation of the product must follow the instructions in this User Manual. Otherwise, the protection scheme might be impaired and the warranty for the



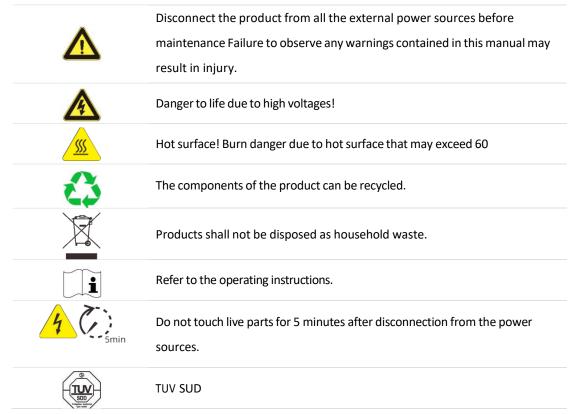
product will be invalid. Appropriate methods must be adopted to protect the product from static electricity damage. Any damage caused by static electricity is not warranted by the manufacturer. PV negative (PV-) and battery negative (BAT-) on the product side are not grounded as the default design. Connecting either PV- or BAT- to EARTH is strictly forbidden.

The product, with a built-in RCMU, will prevent the possibility of DC residual currents up to 6mA.

Thus, in the system, an external RCD (type A) can be used (\geq 30mA).

Symbols On The Label

Symbol Explanation

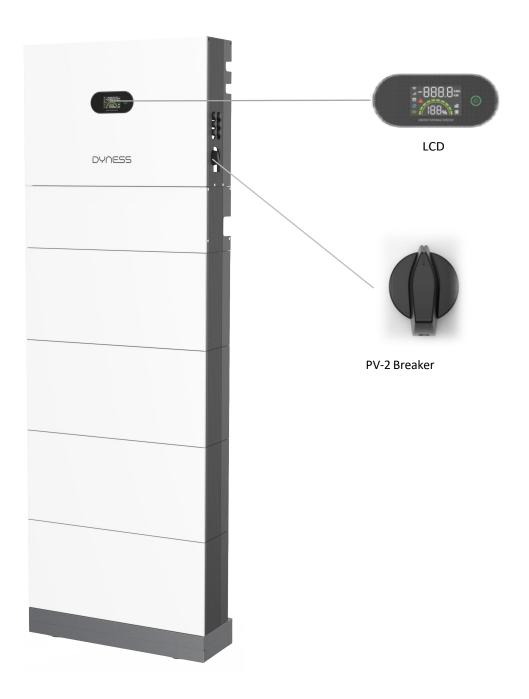


Limited by the temperature of the battery, the energy storage system downgraded uses the rated maximum operating ambient temperature 50 °C for outdoor unconditioned with solar effects.



3 Product Introduction

Product Overview

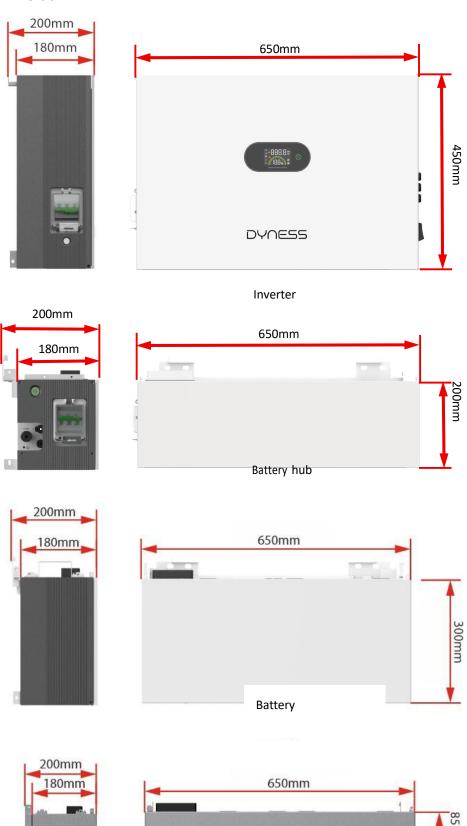








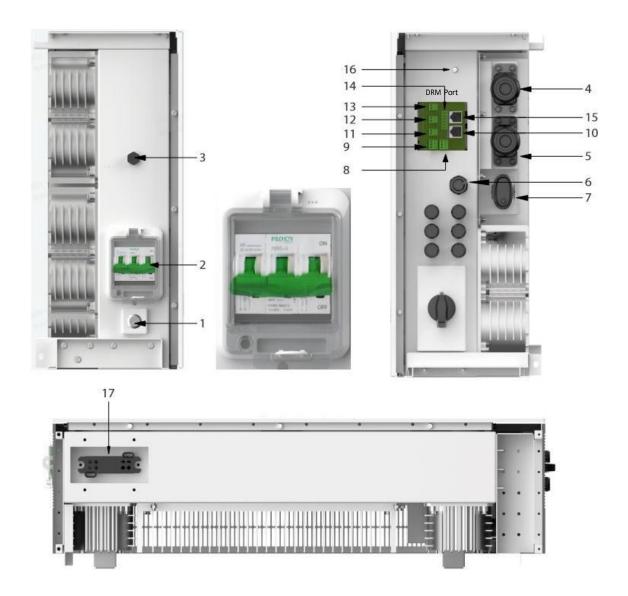
Dimension



Base



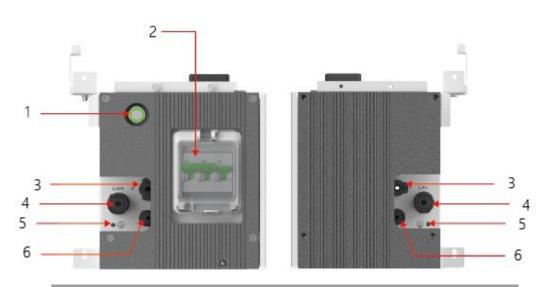
Interface Definition-INV



1 Wakeup Button Turn on the connection of battery and inverter	
2 Battery Isolator Control the battery on and off	
3 Breather valve Waterproof and breathable	
4 AC Output Terminal (On-grid) Grid connection port	
5 AC Output Terminal (Backup) Backup load connection port	
6 METER/CT Communication to Meter	
7 Communication terminal Adaptive communication module	

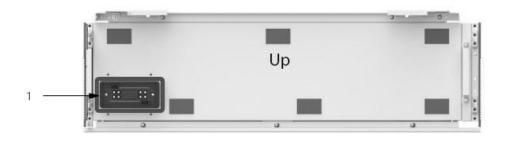
Cygr	ni User Manual	DYNESS
8	DRY_OUT1	Communication interface
9	DRY_OUT2	Communication interface
10	Parallel_1	Communication interface
11	SCD	Communication interface
12	EMS	Communication interface
13	IO_IN	Communication interface
14	DRM Port	Communication interface
15	Parallel_2	Communication interface
16	Ground nut	Ground connection
17	Composite connector-Socket	Battery module output and communication interface

Interface Definition-BAT HUB



NO.	PART	NO	PART
1	Push-button switch	4	Communication terminal
2	Micro-breaker switch	5	GND
3	BAT+	6	BAT-



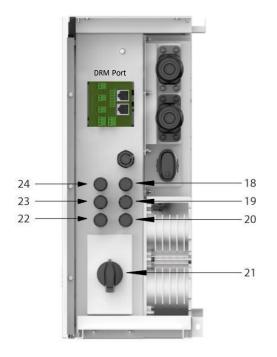




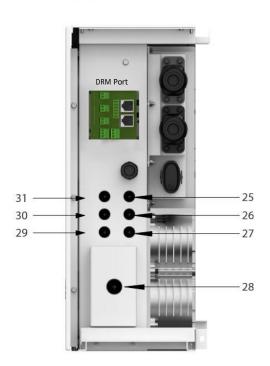
Item	Name	Definition
1	Battery terminal 1	Battery input 1-
2	Battery terminal 2	Battery input 2-



Cygni Hybrid



Cygni AC Couple



Item	Name	Definition
18	Male PV terminal 1	PV input 1-
19	Male PV terminal 2	PV input 2-
20	Male PV terminal 3	PV input 3-
21	DC switch	Control the PV on and off
22	Female PV terminal 1	PV input 1+
23	Female PV terminal 2	PV input 2+
24	Female PV terminal 3	PV input 3+
25	M12 Screw Plugs	SPM1209B
26	M12 Screw Plugs	SPM1209B
27	M12 Screw Plugs	SPM1209B
28	M16 Screw Plugs	SPM1612B
29	M12 Screw Plugs	SPM1209B
30	M12 Screw Plugs	SPM1209B
31	M12 Screw Plugs	SPM1209B



Buttons and indicator lights

The LED indicator on the front of the product can indicate the current working state of the product.



lcon	Indications	Status			
10011	malcations	Burning	Off	Flash	
	Wi-Fi	Normal and Connected	Not		
~		to Internet	connected		
M			Not		
17	Backup Load	Connected well and running	connected		
-	Solar	Connected well and running	Not		
进	Operation	connected well and running	connected		
	Battery	Well Connected and Discharging	Not	BMS	
4			connected or	Communication	
		2.30.141.811.8	Fault	loss	
4	Utility Connection		Not		
太		Well Connected	connected or		
			Fault		
	System	System Out of Condition	System		
	Health	·	Running Well		
100%	Battery SOC Ch	narge/Discharge Status Indication	ıs		
	Touch Button				

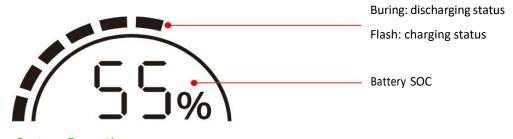


System status indicator

For more than 1 minute, the keys have no operation to turn off the screen, press the screen to wake up the screen after the screen is turned off. The key is not operated within 30 seconds to return to the default display

display			
System Status	Display Statu	es	Explanations
Current AC power (default)		888.8 kw	Value + (k)W
Power generation of the day		88.8 KWh	Value + kWh
()	Flashing	888.8 kw	Total load power
Load status		888.8 kwh	Energy Consumed of the Day
		-888.8 kw	Battery Charging Power
[47]	Elaching	888.8 kw	Battery Discharging Power
Battery status	Flashing		Battery Charged Energy of the Day
		888.8 kwh	Battery Discharged Energy of the Day
PV status	Flashing	888.8 kw	Solar Production Power
		888.8 kw	Power Exporting to Grid
*	Elaching	-888.8 _{kw}	Power Importing from Grid
Grid status	Flashing		Energy Consumed from Grid of the Day
		888.8 kwh	Energy Exported to Grid of the Day
A	Burning	600	Multiple faults switchs every 3s
		E00	System Fault
		888.8 kw	System Running
		888.8 kw	Wait/Checking
		100%	Firmware Upgrading

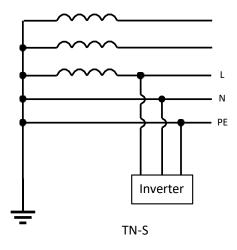


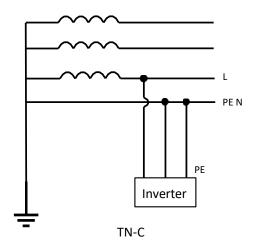


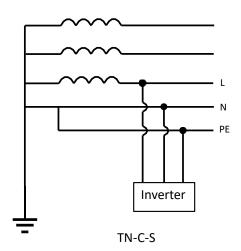
System Operation

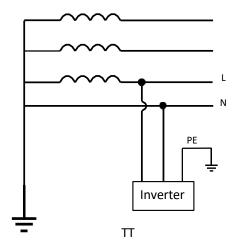
Supported Grid Types

The inverter supports grid types as follows:

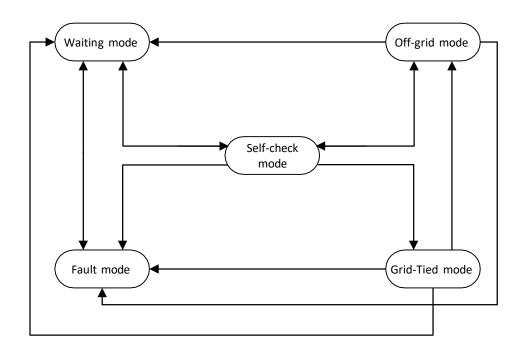






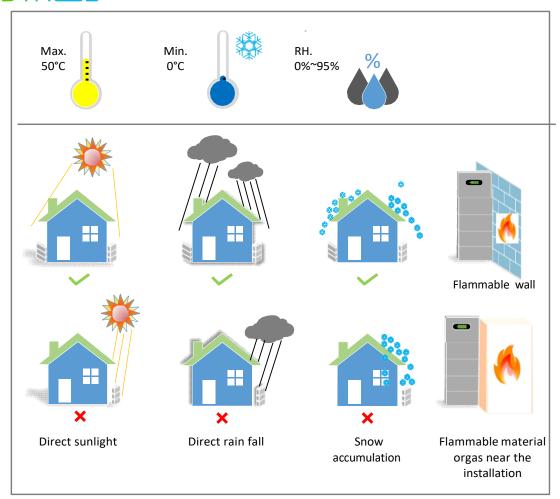






Waiting Product stand by after powering on. Product will start self-check or enter fault n mode there is any system unconditioning.	
mode there is any system uncontained.	
Under self-check mode, product performs an overall self-check on system cor	dition,
Self-check after which, product enter grid-tie mode or off-grid mode according to utility	
mode connection status, enter waiting mode if off-grid function closed during utility a	sence,
or switch to fault mode if a fault condition detected.	
Product connects to utility successfully and operate normally. Product will swite Grid-Tied	h to
3 off-grid mode if utility is absent and further might to wait mode if off-grid funct	on
mode turned off, or switch to fault mode if a fault condition detected.	
Product operate without utility access, but still be able to supply backup loads Off-Grid	f off-
4 grid function turned on, or switch to wait mode if off-grid function turned off. As	utility
mode accessibility recover, product switches to grid-tie mode.	
Fault If a fault is detected, the product enters the fault mode. When the	
mode fault is cleared, it enters the wait mode.	

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Application Scenarios



WARNING

The inverter off-grid mode switch time is around 10ms. The device is not suitable for equipments that requires uninterrupted power supply, such as medical equipment ets. incase of any personal or economic losses.

Please make sure the inrush current of consumers on backup side is within the stand range on backup power supply spec. of the inverter. Otherwise the inverter might stop working because of backup overloading.

BACK-UP is not recommended if the PV systems do not configure with a battery. Otherwise, the risk in system power usage is beyond the equipment manufacturer's warranty scope. Environmental factors such as ambient temperature, humidity etc. may limit the battery's current and affect its loading capacity.



Overloading on backup side will lead to inverter shutdown and report failure automatically. So please make sure the backup load power is lower than inverter rated power during off-grid mode. When the inverter is in off-grid mode, it can be used for normal household loads, such as:

Inductive load: 8.0-10.0kW inverter supports 2P non-inverter air conditioner; Capacitive load: the total power is no more than 0.66 times the inverter's rated output power.

4Product Installation

Scope of Delivery

In the inverter box



Cygni User Manual

Cygni User Manual						
Item	Description	Quantity	Item	Description	Quantity	
Α	Inverter	1PCS	K	Hanging Rack	2PCS	
В	AC Connector	2PCS	L	M4x10 screw	4PCS	
С	Male PV Connector	3PCS	М	Wi-Fi Module	1PCS	
D	Female PV Connector	3PCS	N	Meter	1PCS	
E	Earth Terminal	1PCS	0	METER/CT wire	1PCS	
F	METER/CT Connector	1PCS	Р	Positioning Plate	1PCS	
G	Cover Plate	1PCS	Q	Expansion Bolts	2PCS	
Н	M4x10 screw	5PCS	R	PLTB1.5-02-B-3.5	3PCS	
ı	M5x10 screw	2PCS	S	PLTB1.5-03-B-3.5	2PCS	
J	Hanging panel	2PCS				

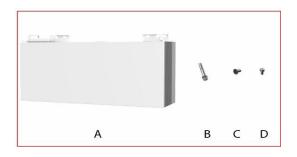
In the battery hub

Item	Description	Quantity
Α	Battery Hub Module	1pcs
В	Expansion bolts	4pcs
С	M4x8 screw	1pcs
D	M5x10 screw	2pcs
E	BAT Connector	4pcs
F	Earth Terminal	1pcs
G	METER/CT Connector	1pcs



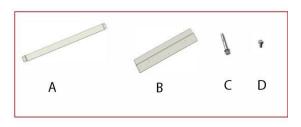
In the battery box

Item	Description	Quantity
Α	Battery Module	1pcs
В	Expansion bolts	4pcs
С	M3x12 screw	1pcs
D	M5x10 screw	2pcs



In the battery wall-mounting kit box (Optional)

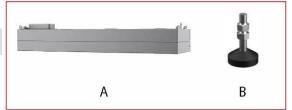
Item	Description	Quantity
Α	Wall Mounting panel 1	1pcs
В	Wall Mounting panel 2	1pcs
С	Expansion bolts	3pcs
D	M5x10 screw	4pcs





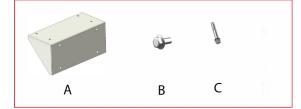
In the Base

Item	Description	Quantity
Α	Base	1pcs
В	Adjustable Feet	4pcs



In the base wall-mounting kit box (Optional)

Item	Description	Quantity
Α	Wall-mounting pallet	1pcs
В	M12x25 screw	4pcs
С	Expansion bolts	4pcs



Storage

If the equipment is not to be installed or used immediately, please ensure that the storage environment meets the following requirements:

- 1. Do not unpack the outer package or throw the desiccant away.
- 2. Store the equipment in a clean place. Make sure the temperature and humidity are appropriate and no condensation.
- 3. The height and direction of the stacking products should follow the instructions on the packing box.
- 4. The products must be stacked with caution to prevent them from falling.
- 5. If the product has been long-term stored, it should be checked by a professional before being put into use.

Unpacking and Inspection



WARNING

Check all safety signs, warning labels and nameplates on devices.

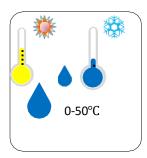
Ensure that the safety signs, warning labels and nameplates must be clearly visible and cannot be removed or covered before the device is decommissioned.

After receiving the product, check whether the appearance and structural parts of the device are damaged, and check whether the packing list is consistent with the actual ordered product. If there are problems with the above inspection items, do not install the device and contact your distributor first. If the problem persists, contact DYNESS in time.



DYNESS

Select A Mounting Location



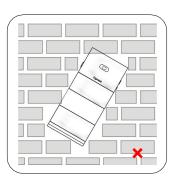


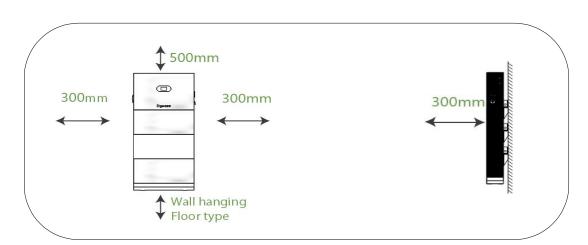














Installation Tools

The following tools are recommended when installing the requirement.

Use other auxiliary tools on-site if necessary.





CAUTION

- Servicing of batteries should be performed or supervised by personnel knowledgeable about batteries and the required precautions.
- When replacing batteries, replace with the same type and number of batteries or battery packs.
- General instructions regarding removal and installation of batteries.
- CAUTION: Do not dispose of batteries in a fire. The batteries may explode.
- CAUTION: Do not open or damage batteries. Released electrolyte is harmful to the skin and eyes. It may be toxic.
- CAUTION: A battery can present a risk of electrical shock and high short-circuit current. The following precautions should be observed when working on batteries:
- a) Remove watches, rings, or other metal objects.
- b) Use tools with insulated handles.
- c) Wear rubber gloves and boots.
- d) Do not lay tools or metal parts on top of batteries.
- e) Disconnect the charging source before connecting or disconnecting the battery terminals.



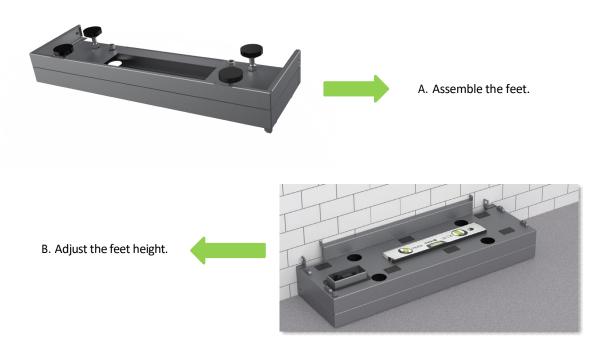
f) Determine if battery is inadvertently grounded. If inadvertently grounded, remove source from ground. Contact with any part of a grounded battery can result in electrical shock. The likelihood of such shock can be reduced if such grounds are removed during installation and maintenance (applicable to equipment and remote battery supplies not having a grounded supply circuit).

Product Installation

Floor Mounting

• Step1: Installation of the Base

Assemble the feet to the bottom of Base, adjust the feet height to ensure that the Base is even.



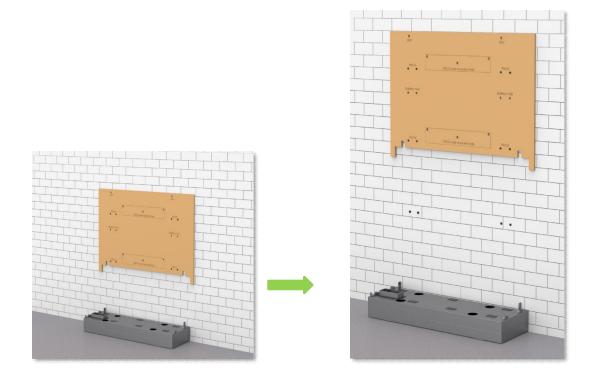
Feet Adjustment: Clockwise turn the adjustment Feed to lower down the base. Anticlockwise turn the adjustment Feed to lift up the base.

- Step2: Drilling Holes for Tightening Battery Modules
- A. Fix the positioning plate to the base, mark the first drilling positions
- B. Follow the steps to mark the rest drilling positions
- C. Drill holes following the requirements hereunder:





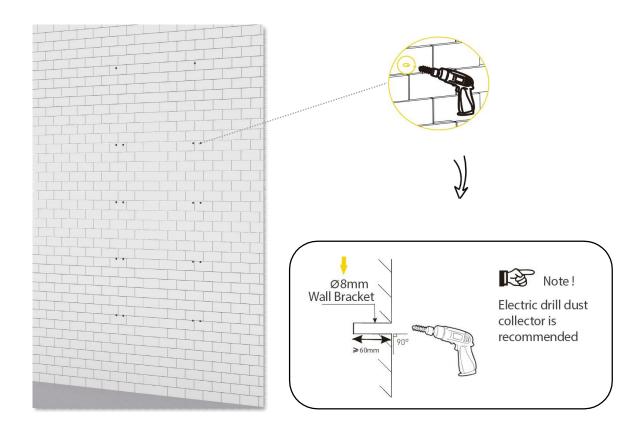
Secure the positioning plate with screws



• Mark hole point of second battery

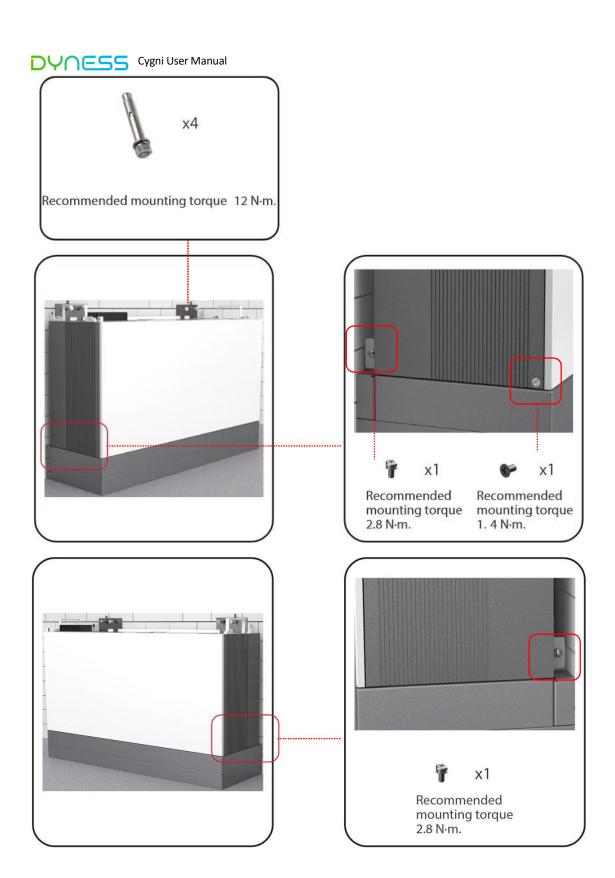
Mark hole point of inverter





• Step3: Assemble Battery Modules







Repeat step3 until you have installed all the battery modules of battery packs.



Note:

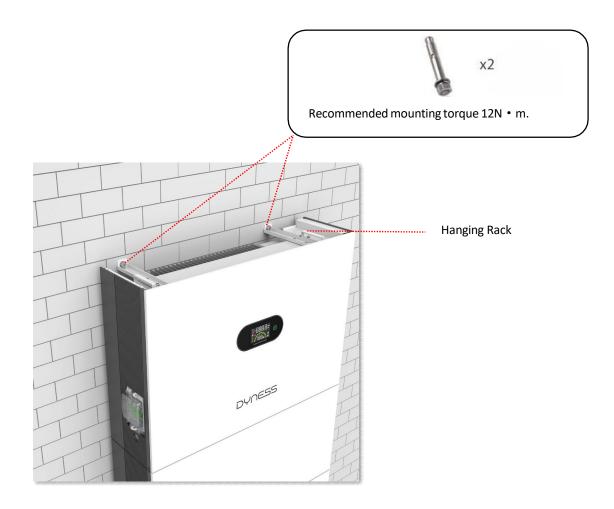
The battery pack is very heavy. It requires 2 men to lift and install the battery module and inverter unit as well.



Step 4: Install Inverter Unit

Install the inverter on the battery pack, locking side screw.

Install the Hanging Rack on the inverter, locking expansion screws secure the wall mounting plates.



Note:

The battery pack is very heavy. It requires 2 men to lift and install the battery module and inverter unit as well..



Install the sealing plate and cover plate upon completion of electrical and communication wirings.





Wall Mounting

Procedure

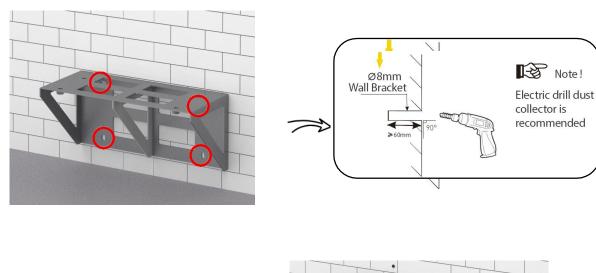
Place the Wall-mounting pallet against a wall . Adjust the hole positions using a level.

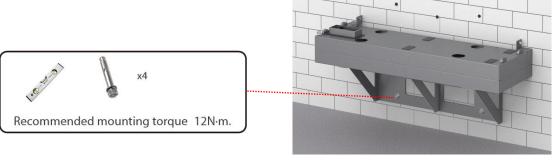
To install the pedestal, drill holes using a hammer drill (φ8mm, depth range 60-65 mm), and tighten expansion screws to ensure that the base is securely installed.

Use a marker to mark holes for securing the battery modules and inverters based on the positioning plate.

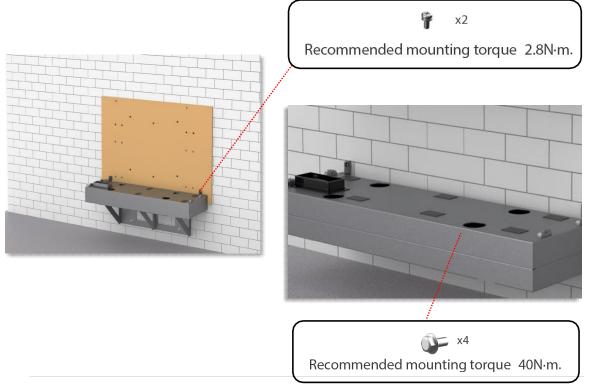


• Step1





Install the base on the Wall-mounting pallet, and then install the positioning plate.



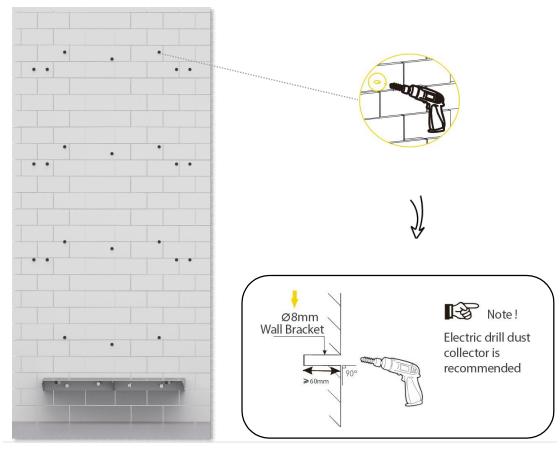


• Step2



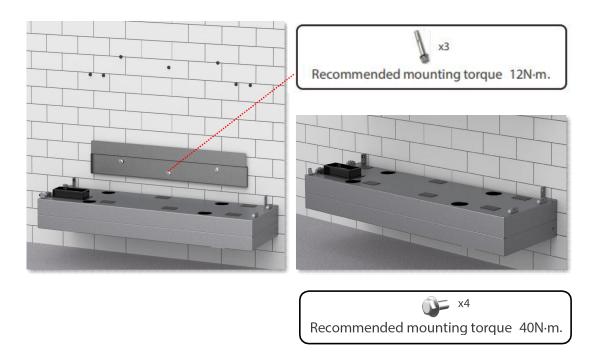


• Step3





• Step4



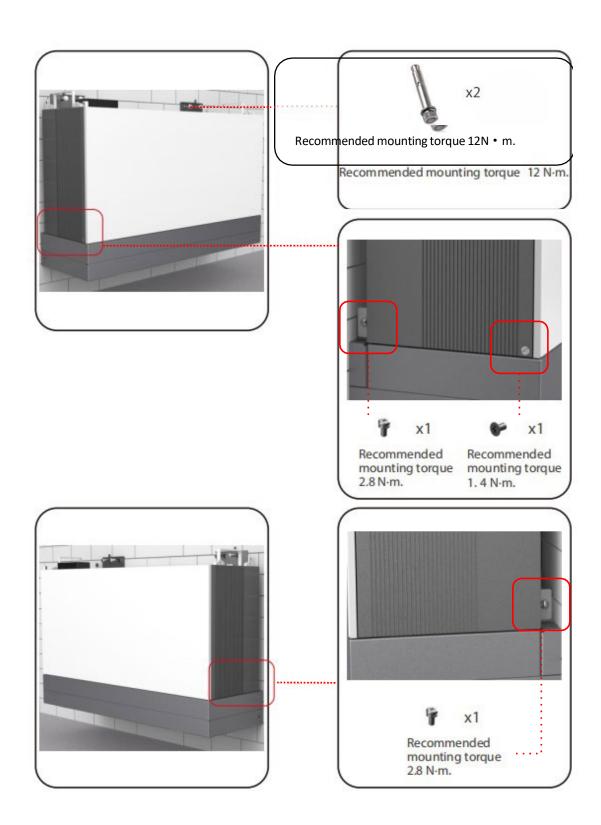
• Step5



Note:

The battery pack is very heavy. Please use proper lifting techniques to avoid potential injury. It is recommended that two people lift the inverter.





Note:

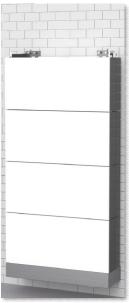
The battery pack is very heavy. Please use proper lifting techniques to avoid potential injury. It is recommended that two people lift the inverter.

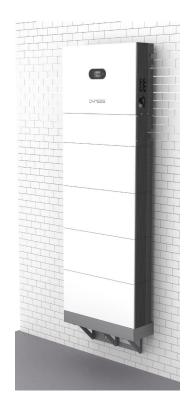


• Step6

 $Repeat\,step 5\,until\,you\,have\,in stalled\,the\,required\,number\,of\,battery\,packs.$







Note:

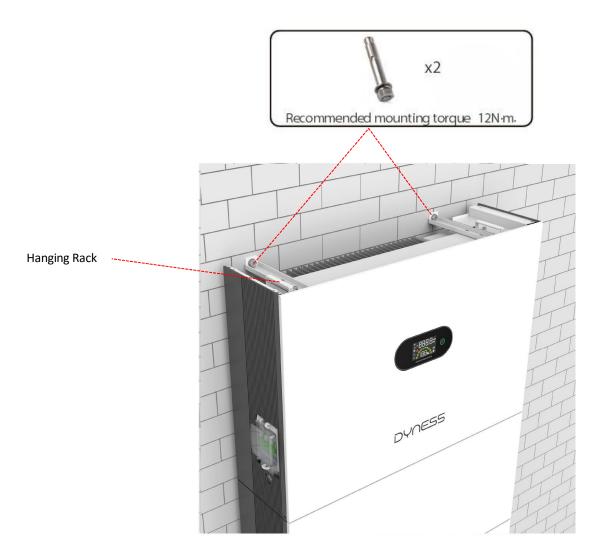
The battery pack is very heavy. Please use proper lifting techniques to avoid potential injury . It is recommended that two people lift the pack.



• Step 7 Inverter installation

Install the inverter on the battery pack, locking side screw.

Install the Hanging Rack on the inverter, locking expansion screws secure the wall mounting plates.



Note:

The inverter is very heavy. Please use proper lifting techniques to avoid potential injury. It is recommended that two people lift the inverter.



Install the sealing plate and cover plate upon completion of electrical and communication wirings.



Note:

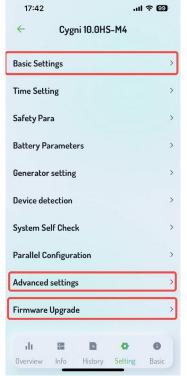
The battery pack is very heavy. Please use proper lifting techniques to avoid potential injury. It is recommended that two people lift the inverter.



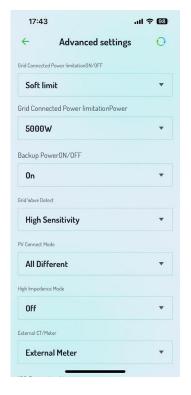
Quick Settings

After creating the power plant with the APP, the customers can click the device to select the safety regulation country and work mode in Basic Settings. Also can set the protective parameters in Advanced settings and can view the firmware version in Firmware Upgrade.





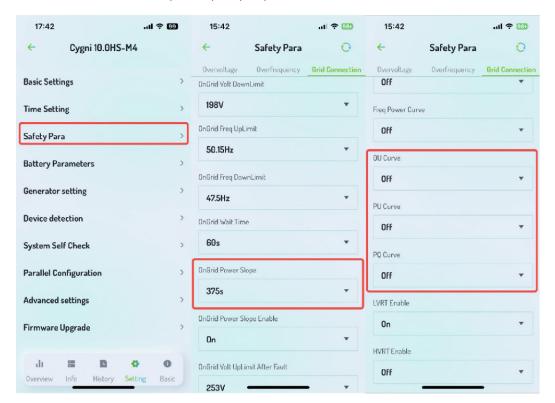






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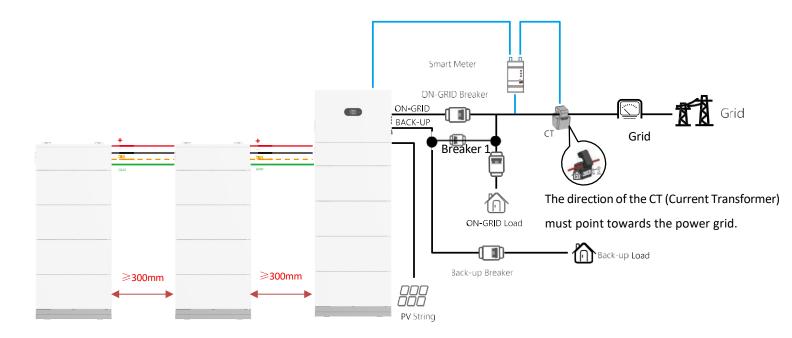
The parameters will be configured automatically after selecting the safety country/region, including overvoltage protection, undervoltage protection, overfrequency protection, underfrequency protection, voltage/frequency connection protection, cos φ curve, Q(U) curve, P(U) curve, FP curve, HVRT, LVRT, etc. You can also enable/disable power quality response modes as follows:





5Electrical Connection

System connection diagram



Considering the demand for instantaneous overload, there is a margin in the selection of battery switch, and the 63A model is chosen to prevent accidental tripping; During normal operation, the battery voltage and current are protected by software and hardware limitations, and this switch mainly provides protection in the event of a short circuit on the battery side.



CAUTION

Circuit Breaker 1 is a maintenance switch. It must remain disconnected during normal inverter operation; otherwise, the inverter may be damaged. When the inverter is inactive, users may close this switch to power the back-up load.

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The direction of the CT (Current Transformer) must point towards the power grid. When all the configurations have been installed, please open the APP for one - click self - inspection to check if the CT direction is correct. For the one - click self - inspection operation, please refer to the APP instruction manual.

Cables prepared by customers

NO.	Cable	Recommended specifications
1	PV Connection Cables (only for Cygni HS series)	4mm ²
	· · · · · · · · · · · · · · · · · · ·	
2	ON-GRID connection cable	10mm ²
3	BACK-UP connection cable	10mm ²
4	Grounding cable	10mm ²

Wiring



Danger

Before installing the PV cables, ensure PV Strings are isolated. Use a multimeter to verify that the PV string voltages are 0V before going next step.

External ground Connection of the PGND cable

Procedure 1 Get ready of ground cable using the OT terminal connector

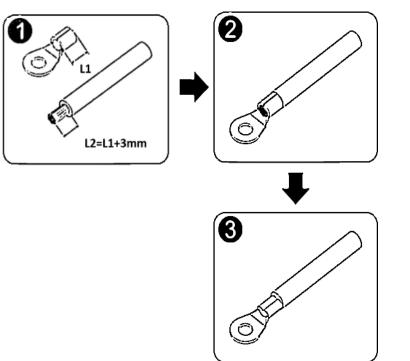
Precautions:

Use the Yellow-green cable.

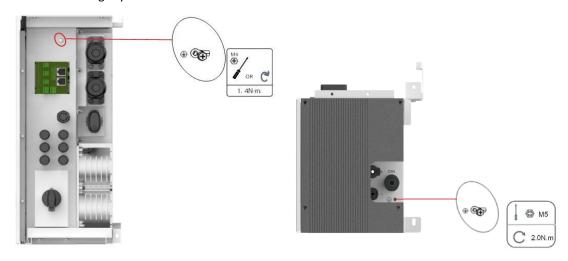
When stripping the cable, do not scratch the core of the cable.

Make sure the cable conductor is not exposed.





Procedure 2 connect the premade ground cable to the right position (shown on the following picture) and make it is fixed tightly.



PV Strings connection

Precautions:

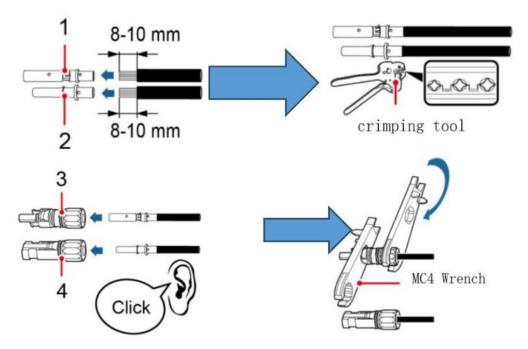
Ensure the OCV (Open-Circuit Voltage) of the PV strings will not exceed the maximum DC input voltage (600Vdc).

Ensure the polarities of solar strings are connected to inverter correspondingly.

Ensure the PV isolator and OCPDs are turned off and the inverter is totally isolated from any DC or AC power.



Ensure the PV resistance to ground is higher than 20K ohms.



Ensure that the Isc of the strings will not exceed the maximum solar input current spec. of the inverter. Recommended solar input cable specifications

PV connection cable	External cable diameter(mm2)		
Range Recommended value			
4.0~6.0	4.0	4.5~7.8	

Connection Procedure:

No.	Definition
1	Male Connector
2	Female Connector
3	Male plug
4	Female plug

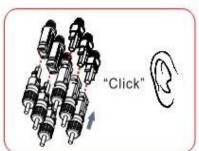


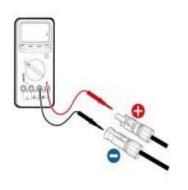
- Step 1 Prepare for solar male and female terminal Connectors
- Step 2 Put solar male and female terminal connectors to the plugs accordingly.
- Step 3 Connect PV connector

Ensure that the DC voltage of each PV string is less than 600V and the polarity of PV cables are correct.

Connect the ready solar plugs to the inverter accordingly until a click is heard.

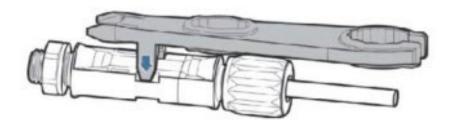






Note: Ensure that the DC switch is turn off before removing the PV connectors. Otherwise the inverter warranty might exempted.

Disconnect the PV connector using an MC4 wrench



ON-Grid & BACK-UP connection



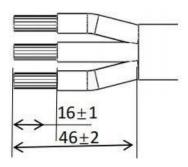
Danger



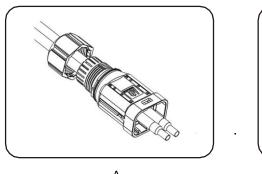
Before installing the AC cables, ensure the inverter is isolated from any DC or AC power and the OCPDs (AC breakers) are all turned off.

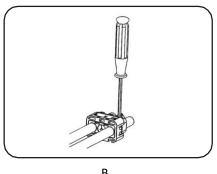
Use a multimeter to verify that the AC string voltages are 0V before proceeding.

Dimension of stripping line outside machine



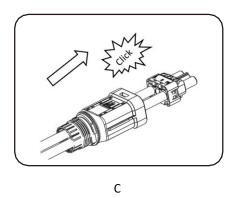
Installation Step

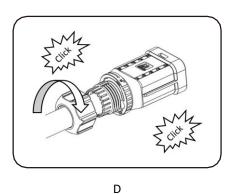




- A: Cut the jacket of the cable and crimp the AC terminals with the cable core tightly.
- B: Put the ready cable through the AC connector cover.
- C: Lock the terminals to the cable connector tightly.

Note: Make sure the cable sequence of L/N/PE is rightly matched. Torque 2.0± 0.1n.m

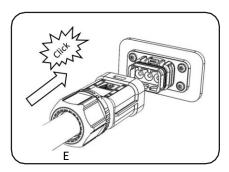




D: Pull the cable to inset the connector to the cover. A click sound means the connector is rightly positioned. sound me



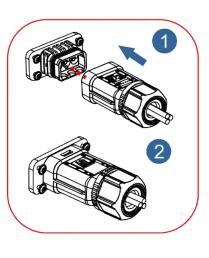
E: Pull the cable to inset the connector to the cover. A click sound means the connector is rightly positioned.



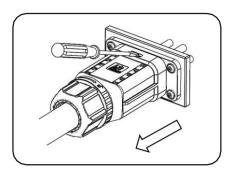
F: Insert the read connector kit to the male AC connector on the inverter and a click sound means the connector is rightly positioned.

Connect the AC wiring terminals to the corresponding AC Grid ports

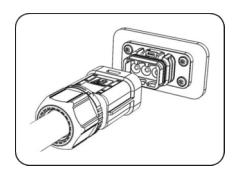




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Use a screwdriver to point at the unlocking position, hold the cable driver, and pull it back to separate the male and female



The female connector is separated from the board connector

Removal Step

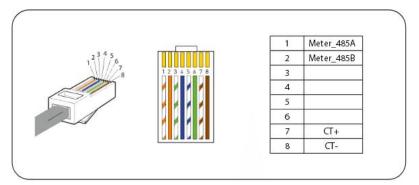
- Option 1
- Option 2



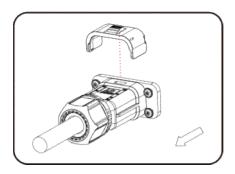
METER/CT Connection

Get ready of the communication cable kit

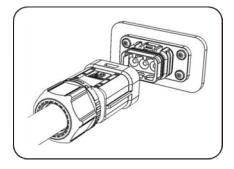
• Prepare the RJ45 cable according to the cable sequence



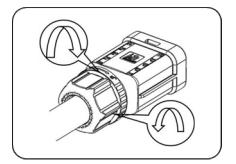
• Put the RJ45 cable through communication connector



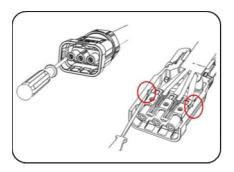
Use a tool to point at the unlocking position, hold the cable driver, and pull it back to separate the male and female



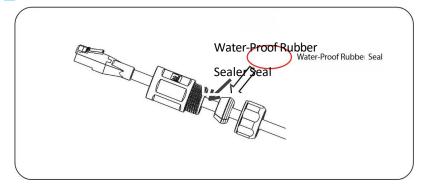
The female connector is separated from the board connector



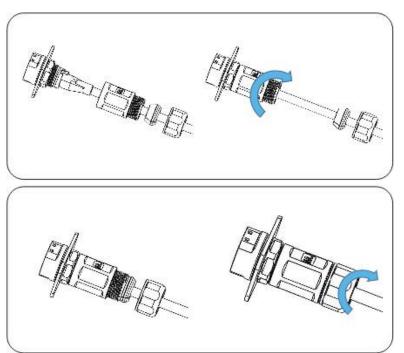
Hold the unlocking buckle with one hand and rotate it in the direction indicated, while rotate the nut in the opposite direction with the other hand



Remove the red circles on both sides using a screwdriver



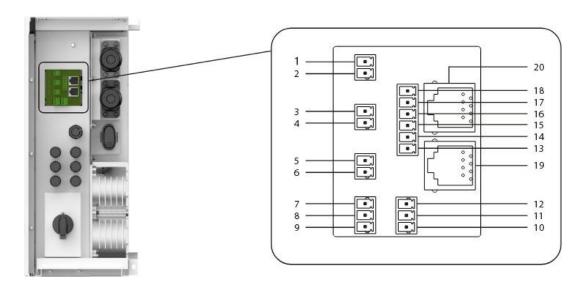
 Connect to inverter and tighten the cover. A click sound means the RJ45 connector is positioned rightly



Note: Make sure the Meter communication cable is to the right position on the inverter (refer to 5.5) Inverter and battery hub use the same terminals.



COM-Multi function communication connection



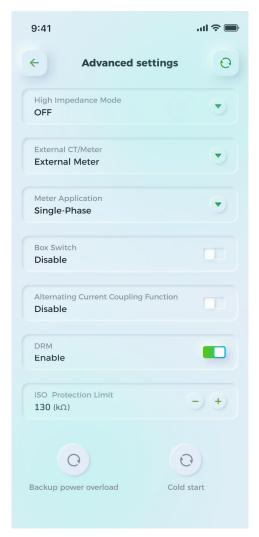
PIN	Port	Definition	Function	
1	- IO_IN	IO_IN+	_ Dry input	
2	10_114	IO_IN-		
3	EN 4C	485+	485 Communication for	
4	EMS	485-	EMS	
5		485+	Reserved 485	
C	SCD	405	Communication for	
6		485-	SCD	
7	DRY_OUT2	IO_OUT+	Describeration	
8	DRY_OUT2	-	Dry output	
9		IO_OUT-		
10		IO_OUT-	Decembed	
11	DRY_OUT1	-	Reserved	
12		IO_OUT+	Dry output	
13		DRM1/5		
14		DRM2/6		
15	- DRM Port	DRM3/7	Demand Response	
16	DRIVIPOR	DRM4/8	Mode	
17		RefGen		
18		Com/DRM0		
19	Parallel_2		For parallel	
20	Parallel_1		connection(Reserved)	

Note:

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If DRM support is specified, the system may only be used in conjunction with a Demand Response Enabling Device (DRED). This ensures that the system implements the commands from the grid operator for active power limitation at all times. The system and the Demand Response Enabling Device (DRED) must be connected in the same network. Only DRMO is available for Cygni.

The enable and disable of the DRM function can also be set in the APP. Specifically, it's in the advanced Settings.





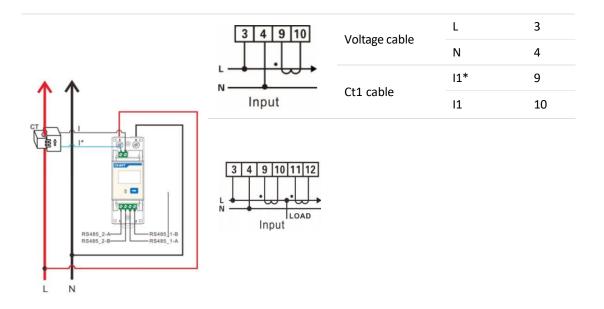
Smart Meter/CT Wirings Diagram



Danger

Smart Meter wiring could be electrically dangerous. Only a qualified electrician is allowed to operate following the steps and cautions.

- 1. Before connecting cables, ensure that the smart meter is not damaged.
- 2. Ensure that the ground cable is securely installed.
- 3. Before powering on the device, ensure that the cables are connected correctly.





	Voltage cable	L	3
		N	4
	Ct1 cable	I1*	9
		I1	10
	Ct2 cable	12*	11
		12	12
5 6 24 25		RS485_1A	24
5 6 24 25	Communication cable	RS485_1B	25

Based on customer requirements, either CTSA016 or METER line can be selected for installation:

If CTSA016 is chosen: The crystal terminal connects to the inverter's METER terminal, and the CT transformer sleeve is connected to the L line of the inverter wire.

If METER line is chosen: The crystal terminal connects to the inverter's METER terminal, and the pin terminal is connected to the Smart Meter according to the wire label.

Note: Ensure the AC cable is isolated from AC power before connecting the Smart Meter and CT.

Equipment commissioning

The machine is already configured before leaving the factory, so there is no need for the user to configure it again.

1) Power ON

Step 1: First push the BAT HUB'S"breaker switch "Battery Isolator to "on".

Then, long press the BAT HUB'S"switch" in Wake up Button for 5 seconds.

Second push the Inverter's "breaker switch" Battery Isolator to "on".

Then, long press the Inverter's "switch" in Wake up Button for

5 seconds until the inverter LCD screen lights up.

Step 2: Turn on the PV breaker;

Step 3: Turn on the inverter ON-GRID breaker;

Step 4: Turn on the inverter BACK-UP breaker.



2) Power OFF



Danger

- 1. When performing operation and maintenance on the inverter, please shut down the inverter. Operating equipment with a live connection can lead to damage to the inverter or electrical shock hazards.
- 2. After the inverter is disconnected, the internal components require a certain amount of time to discharge. Please wait until the device is fully discharged according to the label time requirements.
- Step 1: Turn off the inverter ON-GRID breaker;
- Step 2: Turn off the inverter BACK-UP breaker;
- Step3: First long press the Inverter's "switch" in Wake up Button for 5 seconds. Then push the Inverter's "breaker switch" Battery Isolator to "off".

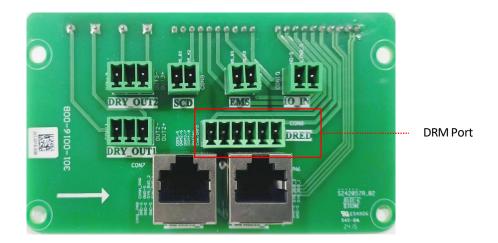
Second long press the BAT HUB's "switch" in Wake up Buttonfor 5 seconds. Then push the BAT HUB's "breaker switch" Battery Isolator to "off".

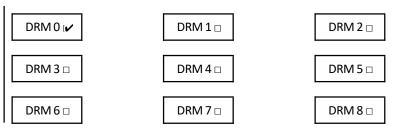
Step 4: Turn off the PV breaker.

Note: For installlations with multiple stacks, It is recommended to prioritize turning on/off the battery pack closest to the inverter, Then turn on/off other battery packs one by one.



3) Meet the functional requirements of DRM0

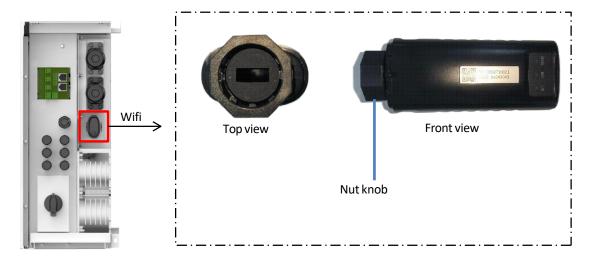




4) End-of-life disposal

When an inverter or battery is no longer usable and needs to be disposed of, please follow the electrical waste disposal requirements as specified by the laws and regulations of your country or region for handling the inverter or battery. They should not be treated as regular household waste.





- Step 1: Insert the WiFi module into the inverter.
- Step 2: Rotate the nut knob clockwise until the WiFi module stops shaking.
- Step 3:When all accessories and wiring are assembled, please scan the second page to download the APP. Refer to the APP to complete the time reset and CT one-click self-inspection function detection.



CAUTION

The installation and removal of the WiFi module must be performed by the installer. Customers are strictly prohibited from installing or removing the WiFi module privately. After completing all configuration installations, open the APP to perform a one-touch self-test to verify whether the current transformer (CT) direction is correct. For self-test procedures, refer to the 'APP user manual'.

Ensure the time is set in the APP to match the local time; otherwise, the inverter will fail to operate normally.

Electrical System Diagrams

Do not connect this terminal to E-Bar of external distribution box if neutral continuity in maintained throughout the distribution system.

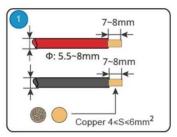
For Australia/New Zealand

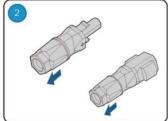


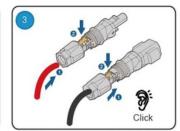
CAUTION

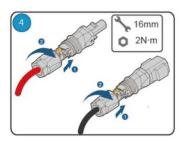
This product does not support multiple inverters used in combination. Possible combinations are single-phase inverters used in parallel, single-phase inverters used in multiple-phase installations and three-phase inverters used in parallel.

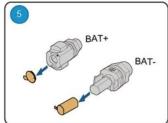
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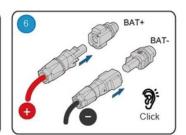


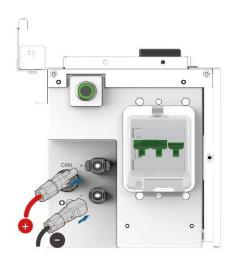


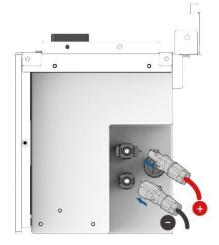


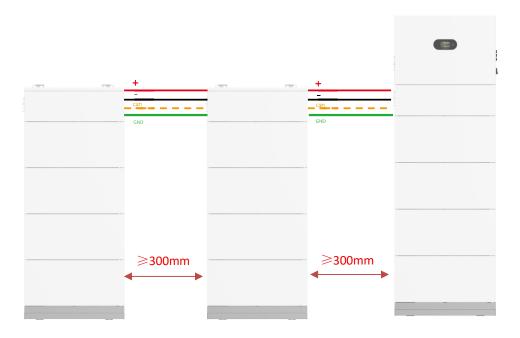




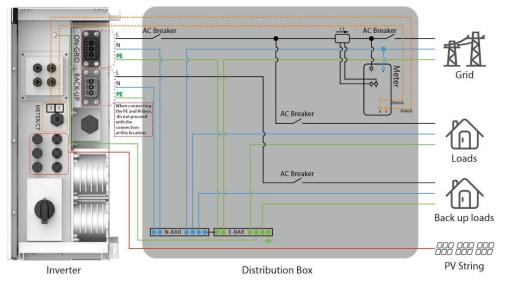












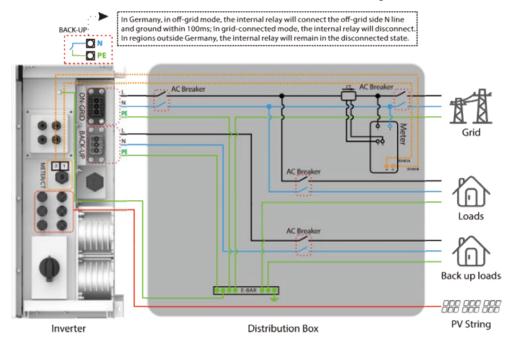
HS series



Other regions except Australia/New Zealand

AC Breaker specification parameter: 8K Rated current ≥50A Rated voltage ≥400V

10K Rated current ≥63A Rated voltage ≥400V



Other regions except Australia/New Zealand

AC Breaker specification parameter : 8K Rated current ≥50A Rated voltage ≥400V

10K Rated current ≥63A Rated voltage ≥400V



6 Other

Error Messages.

The error messages below will be displayed on the App or reported by e-mail if an error occurs.

Grid Loss(Not availa	able of public grid power)	E10				
REASON	Product does not detect the connection of grid or the grid	voltage fault.				
	Check connections and grid switch to ensure grid power	is				
SOLUTIONS	available.					
	Make sure AC cables are connected tightly and right well.					
VAC High/Low(Grid	voltage is not within permissible range)	E25/26				
REASON	Product detects that the AC voltage is beyond the normal					
	Check the AC voltage is in the range of standard voltage i	n the				
COLUTIONS	specification.					
SOLUTIONS	Check connections and grid switch.					
	Ensure the safety country of the product is set right.					
FAC High/Low(Grid	Efficiency is not within permissible)	E27/28				
DEASON	Product detects that Grid frequency is beyond the norma	l range required by				
REASON	the safety country.	the safety country.				
COLUTIONS	Check whether frequency is in the range of specification of	or not.				
SOLUTIONS	2. Ensure the safety country of the product is set right.					
DC Input High(PV o	r battery voltage is too high)	E16				
	The total voltage (open circuit voltage) of each PV string	is higher than the				
REASON	max DC input voltage of the product. Or The battery voltage is higher than					
	the max BAT input.					
COLUTIONS	Check the PV input voltage. Do not exceed the range of					
SOLUTIONS	specifications.2. Check the battery input voltage.					
ISO Fault(PV isolati	on protection)	E19				
	Isolation failure could be caused by multi reasons like F	PV panels not				
REASON	grounded well, DC cable is broken, PV panels are aged	or surrounding				
	humidity is comparatively heavy, etc.					
	Use a multimeter to check if the resistance between the e	earth &				
	product frame is about zero. If it's not, Please make the					
	connection earth & product frame well.					
SOLUTIONS	Remove all DC input, reconnect and restart the product one by					
	one.					
	Identify which string causes the fault and check the isolation of					
	the string.					

Cygni User Manual

	User Manual				
Over Temperature(Ter	nperature inside of the product is too high)	E14			
REASON	Product working environment leads to a high-temperature c	ondition			
COLUTIONS	Check the product surrounding ventilation.				
SOLUTIONS	Check if there's sunshine direct on the product in hot weath	er.			
GFCI Fault(The ground	d leakage current is high)	E1			
REASON	Neutral & ground cables are not connected well on the AC s	ide or just			
REASON	occasional failure				
SOLUTIONS	Check using a multi-meter if there is a high voltage (normall	y should be			
3020110113	lower than 10V) between the N&PE cable on the AC side.				
	n DC injection current)	E20			
REASON	Product detects a higher DC component in AC output				
SOLUTIONS	Try to restart the product, and check if it still happens, if not, means it is just				
	an occasional situation or contact the manufacturer.				
EEPROM Fault(EEPROI	M R/W fails)	E31			
REASON	Caused by a strong external magnetic field etc.				
SOLUTIONS	Try to restart the product, and check if it still happens, if not, means it is just				
	an occasional situation or contact the manufacturer.				
Comm Fault(Internal o	communication fails)	E32			
REASON	Caused by a strong external magnetic field etc.				
REASON	Caused by a strong external magnetic field etc. Try to restart the product, and check if it still happens, if not,	, means it is just			
		, means it is just			
REASON	Try to restart the product, and check if it still happens, if not, an occasional situation or contact the manufacturer.	, means it is just			
REASON SOLUTIONS	Try to restart the product, and check if it still happens, if not, an occasional situation or contact the manufacturer.				
REASON SOLUTIONS DC Bus High(BUS volta REASON	Try to restart the product, and check if it still happens, if not, an occasional situation or contact the manufacturer. age is over-high)	E12			
REASON SOLUTIONS DC Bus High(BUS volta	Try to restart the product, and check if it still happens, if not, an occasional situation or contact the manufacturer. age is over-high) PV or battery voltage is too high	E12			
REASON SOLUTIONS DC Bus High(BUS volta REASON SOLUTIONS	Try to restart the product, and check if it still happens, if not, an occasional situation or contact the manufacturer. age is over-high) PV or battery voltage is too high Try to restart the product, and check if it still happens, if not,	E12			
REASON SOLUTIONS DC Bus High(BUS volta REASON SOLUTIONS Back-Up Over Load(Ba	Try to restart the product, and check if it still happens, if not, an occasional situation or contact the manufacturer. age is over-high) PV or battery voltage is too high Try to restart the product, and check if it still happens, if not, an occasional situation or contact the manufacturer.	E12 , means it is just E21			
REASON SOLUTIONS DC Bus High(BUS volta REASON SOLUTIONS	Try to restart the product, and check if it still happens, if not, an occasional situation or contact the manufacturer. age is over-high) PV or battery voltage is too high Try to restart the product, and check if it still happens, if not, an occasional situation or contact the manufacturer. ack-up side is over loaded)	E12 , means it is just E21			
REASON SOLUTIONS DC Bus High(BUS volta REASON SOLUTIONS Back-Up Over Load(Ba	Try to restart the product, and check if it still happens, if not, an occasional situation or contact the manufacturer. age is over-high) PV or battery voltage is too high Try to restart the product, and check if it still happens, if not, an occasional situation or contact the manufacturer. ack-up side is over loaded) The total Back-Up load power is higher than the nominal back-up side is over loaded.	E12 , means it is just E21 ckup output			
REASON SOLUTIONS DC Bus High(BUS volta REASON SOLUTIONS Back-Up Over Load(Ba	Try to restart the product, and check if it still happens, if not, an occasional situation or contact the manufacturer. age is over-high) PV or battery voltage is too high Try to restart the product, and check if it still happens, if not, an occasional situation or contact the manufacturer. ack-up side is over loaded) The total Back-Up load power is higher than the nominal bac power	E12 , means it is just E21 ckup output			
REASON SOLUTIONS DC Bus High(BUS volta REASON SOLUTIONS Back-Up Over Load(Back-Up Over Load(Back-U	Try to restart the product, and check if it still happens, if not, an occasional situation or contact the manufacturer. age is over-high) PV or battery voltage is too high Try to restart the product, and check if it still happens, if not, an occasional situation or contact the manufacturer. ack-up side is over loaded) The total Back-Up load power is higher than the nominal bac power Check the load of the backup port is over-rating output power	E12 , means it is just E21 ckup output er or			



7 System Maintenance

Routine Maintenance

The product is disassembled, changed or updated on software or hardware without authorization from the manufacturer.

The Product is installed, used, or operated against any related provisions contained in international or local policies or regulations.

Any incompatible batteries, loads or other devices are connected to the HS system.

Specifications are subject to change without notice. Every effort has been made to make this document complete, accurate and up-to-date. However, Dyness may need to make some improvements under certain circumstances without advance notice. Dyness shall not be responsible for any loss caused by this document including, but not limited omissions errors, typographical errors, arithmetical errors or listing errors in this document.

If you have any questions or suggestions, please contact Dyness after-sale.

Note: The manufacturer retains the right to explain all of the contents in this User Manual. To insure product must be sealed well; please install the products within one day of unpacking; otherwise, please seal all unused terminals /holes; unused terminals/holes are not allowed to remain open, and confirm that there

Maintaining Item	Maintaining Method	Maintaining Period
System Clean	Check the heat sink, air intake, and air outlet for foreign matter or dust.	Once 6-12 months
DC Switch	Turn the DC switch on and o ten consecutive times to make sure that it is working properly.	Once a year
Electrical Connection	Check whether the cables are securely connected. Check whether the cables are broken, or whether there is any exposed copper core.	Once 6-12 months
Sealing	Check whether all the terminals and ports are properly sealed. Reseal the cable hole if it is not sealed or is too big.	Once a year



Troubleshooting

Troubleshooting		
Fault phenomenon	Factor analysis	Elimination method
No display after the instrument being powered on	 Incorrect wiring mode. Abnormal voltage supplied for the instrument. 	 If the wiring mode is incorrect, please connect based on the correct wiring mode (see the wiring diagram). If the supplied voltage is abnormal, please supply the voltage on the instrument specification.
Abnormal RS485 communication	The RS485 communication cable is disconnected, short circuit or reversely connected. The address, baud rate, data bit and the parity bit of the instrument is not in accordance with the product.	If any problems with the communication cable, please change the cable. Set the address, baud r ate, data bit and parity bit of the instrument to be the same as the product through buttons and soas the "parameter setting".
Power metering inaccuracy	 Wrong wiring, please check whether the corresponding phase sequence of voltage and current is correct. Check whether the high and low ends of the current transformer inlet are reversely connected. Pa, Pb, and Pc are abnormal if the values are negative. 	1. For wrong wiring, please connect based on the correct wiring mode (See the Smart Meter & CT connection diagram 2. If a negative value is displayed, change the cable connection mode of the current transformer to ensure that the high and low ends are connected properly.

Disclaimer



The Dyness D series products are transported, used and operated under environmental and electrical conditions.

The manufacturer has the right to not provide after-sales services or assistance under the following conditions:

- The product is damaged during the transfer.
- The product is out of the warranty year and an extended warranty is not purchased.
- The product is installed, retted, or operated in improper ways without authorization from the manufacturer.
- The product is installed or used under improper environmental or technical conditions (as mentioned in this User Manual) and without authorization from the manufacturer.
- The installation or configuration of the product does not follow the requirements mentioned in this User Manual.
- The product is installed or operated contrary to the requirements or warnings mentioned in this User Manual.
- The product is broken or damaged by any force majeure, such as lightning, earthquake, re-hazard, storm and volcanic eruption etc.



8Technical Specifications

				Cygni8.0HS	•		
Technical Data	M2	M3	M4	M6	M8	M9	M12
Battery Input Data	IVIZ	IVIO	IVIT	IVIO	IVIO	IVIO	IVIIZ
Battery Type				LiFePO4			
Expandable Quantity	2	3	4	6	8	9	12
Number of Cygni Battery			·				
Hub	0	0	0	2	2	3	3
Nominal Energy(kWh)	7.68	11.52	15.36	23.04	30.72	34.56	46.08
Usable Energy(kWh)	7.30	10.94	14.59	21.89	29.18	32.83	43.77
Operating Voltage(V)	168~219	252~328	336~438	252~328	336~438	252~328	336~438
Nominal Voltage(V)	192	288	384	288	384	288	384
Nominal Capacity(Ah)				40			
Max.Charge/Discharge				0.5			
Current(A)				39			
Max.Discharge Power(kW)	7.68	8.8	8.8	8.8	8.8	8.8	8.8
Max.Charge Power(kW)	7.68	8.8	8.8	8.8	8.8	8.8	8.8
Max.DOD (Depth of				0.5			
Discharge) (%)				95			
Operating Temperature				0~50			
Range(°C)				0 30			
Cycle Life			≥8000	Cycles, 709	%SOH		
Alarms	Overcha	rge/Overdis	scharge/Ov	ercurrent/0	Overtempe	rature/Sho	rt Circuit
Safety Regulation			IEC 6	2619/IEC 6	0730		
Technical Data			(Cygni10.0H	S		
. Commour Data	M2	М3	M4	M6	M8	M9	M12
Battery Input Data							
Battery Type				LiFePO4			
Expandable Quantity	2	3	4	6	8	9	12
Number of Cygni Battery	0	0	0	2	2	3	3
Hub		J	J	-	-	-	
Nominal Energy(kWh)	7.68	11.52	15.36	23.04	30.72	34.56	46.08
Usable Energy(kWh)	7.30	10.94	14.59	21.89	29.18	32.83	43.77
Operating Voltage(V)	168~219	252~328	336~438	252~328	336~438	252~328	336~438
Nominal Voltage(V)	192	288	384	288	384	288	384

DYNESS Cygni User	Manual						
Nominal Capacity(Ah)				40			
Max.Charge/Discharge	39						
Current(A)				33			
Max.Discharge Power(kW)	7.68	11	11	11	11	11	11
Max.Charge Power(kW)	7.68	11	11	11	11	11	11
Max.DOD (Depth of				95			
Discharge) (%)				95			
Operating Temperature				0~50			
Range(°C)				0 50			
Cycle Life			≥8000	Cycles,	70%SOH		
Alarms	Overchar	ge/Overdis	scharge/Ov	ercurrer	nt/Overtempe	rature/Shor	t Circuit
Safety Regulation			IEC 6	2619/IE	C 60730		
PV String Input Data		Cygni8.0F	HS		Суд	ni10.0HS	
Max.PV Input Power (W)		12000				15000	
Max.PV Input Voltage (V)				600			
Maximum inverter				0.4			
backfeed current to array				0A			
MPPT Range (V)				60-550			
SPS Start-up Voltage (V)				60			
MPPT Voltage Range For		100 500	1		2	10.500	
Nominal Power (V)		180-500	J		2	10-500	
Nominal DC Input				200			
Voltage (V)				390			
Max.Input Current (A)		16/16/1	.6		10	5/16/16	
Max.Short Current (A)		23/23/2	3		23	3/23/23	
No.of MPP Trackers		3				3	
No.of Strings per MPP				1			
Tracker				1			
AC		C :0 01	uc.		0	···-:'40 OUG	
Output Data(On-grid)		Cygni8.0	HS		Суд	ni10.0HS	
Nominal Apparent Power					0000		
Output to Utility Grid (VA)	8000 9999						
Max.Apparent Power	2000						
Output to Utility Grid (VA)	8000 9999						
Max.Power From Grid	0000						
(VA)		8000				9999	

Cygni User Manual		DYNESS
Nominal Output Voltage	230	
(V)		
Nominal Output	50	
Frequency (HZ)		
Inrush current (Peak	135.8A /3us	
and duration)		
Rated/Max.AC Current	24.0	42.5
Output to Grid(A)	34.8	43.5
Rated/Max.AC Current	24.0	43.5
From Grid (A)	34.8	
Maximum output fault		
current (Peak and	135.8A /3us	
duration)		
Output Power Factor	Adjustable from 0.8 leading to 0.8 lagging	
Input Icc	≤10kA	
Output THDi (Nominal	<39	ν.
Power)	\3 ;	70

Cygni8.0HS	Cygni10.0HS
8000	10000
9600,60sec	12000,60sec
34.8	43.5
135.8A /3us	
230 (Without Transformer)	
50	
135.8A /3us	
	8000 9600,60sec 34.8 135.8A 230 (Without T

Cygni User Manual			
Output THD v (@Linear		~30/	
Load)		<3%	
Backup ups (ms)	<10		
Generator input		NO	
Efficiency	Cygni8.0HS Cygni10.0HS		
MPPT efficiency	99.9%		
Max.Efficiency	97.5%		
Europe Efficiency	97.0%		
Protection	Cygni8.0HS	Cygni10.0HS	
Anti-island Protection	Into	egrated	
PV String Input Reverse	14	agrated	
Polarity Protection	Into	egrated	
Battery Reverse	lnt.	ograted	
Protection	into	egrated	
Residual Current	Int	egrated	
Monitoring Unit	mo	egrateu	
Over Current/Voltage	Integrated		
Protection			
DC Switch (PV)	Integrated		
Fire Protection System	Built-in aerosol fire extinguisher		
Surge Protection	DC Type II/ AC Type III		
Communication Interface	Cygni8.0HS Cygni10.0HS		
Battery BMS	CAN		
EMS	RS485		
Meter	R	RS485	
E-Stop	YES (DI)		
Dry-Point	YES (DO)		
Communication	Wi-Fi; Bluetooth		
Display	LCD; APP; Web		
General Data	Cygni8.0HS	Cygni10.0HS	
Topology	Non-Isolated		
Operating Temperature			
Range (°C)	0-50		
Relative Humidity (%)	0-95		
		0 33	
Operating Altitude(m)		3000	



Cygni Oser ivianuai		
Noise(dB)	<35	
Installation	Wall hanging & Floor type	
Enclosure Type	IP 66	
Active anti-islanding		
method	Active frequency perturbation method	
Pollution degree	2/5	
classification	3(External Environment),2(Internal Environment)	
-Storage type	Li-lon	
-Protective class (I, II or		
III)	Class I	
-Over voltage category	W(DG), W(AG)	
(OVC I, II, III or IV)	II(DC), III(AC)	
Inverter topology	Non-Sealand	
(Isolated or non-isolated)	Non-isolated	
Ingress protection (IP)	Inco	
rating	IP66	

General Data	Cygni8.0HS	Cygni10.0HS	
	BAT C	BAT C	
Decisive voltage class	PV C	PV C	
(DVC)	AC C	AC C	
	COM A	COM A	
Maximum inverter			
backfeed current to the	0A	0A	
array			
The maximum output			
overcurrent protection for	65A	65A	
each AC output			
port			
AC surge protection	Class III	Class III	
AC Surge Protection Time	20 ns	20 ns	



Technical Specifications

Mode	Weight(kg)	Size(W/H/D)(mm)
Cygni 8.0HS-M2	113.2	650x1130x180
Cygni 8.0HS-M3	153.7	650x1430x180
Cygni 8.0HS-M4	193.7	650x1730x180
Cygni 8.0HS-M6	292.5	650×1630×180/650×1180×180
Cygni 8.0HS-M8	372.5	650×1930×180/650×1480×180
Cygni 8.0HS-M9	425	650×1630×180/650×1180×180/650×1180×180
Cygni 8.0HS-M12	545	650×1930×180/650×1480×180/650×1480×180
Cygni 10.0HS-M2	113.2	650x1130x180
Cygni 10.0HS-M3	153.7	650x1430x180
Cygni 10.0HS-M4	193.7	650x1730x180
Cygni 10.0HS-M6	292.5	650×1630×180/650×1180×180
Cygni 10.0HS-M8	372.5	650×1930×180/650×1480×180
Cygni 10.0HS-M9	425	650×1630×180/650×1180×180/650×1180×180
Cygni 10.0HS-M12	545	650×1930×180/650×1480×180/650×1480×180



Technical Specifications

General Data	Cygni8.0HS	Cygni10.0HS
Warranty (year)	10	
Safety Regulation	IEC 62109-1/2, IEC 62040, IEC 62619:2022	
EMC	IEC/EN 61000 6-1/3, EN 62920:2017/A1:2021	
Grid Regulation	AS/NZS 4777.2: 2020	
Manufacturer	Daqin Digital Energy Technology Co., Ltd.	
Country of Manufacture	China	

Function	Cygni8.0HS	Cygni10.0HS
Protection Parameter Setting	Obtain security codes and corresponding protection	
	parameters by APP.	
Regional Setting	Set security codes of regional settings(Australia, Australia B,	
	Australia C) by APP.	
Anti Backflow Setting	Set anti backflow switch (off, soft limit, hard limit) and limited	
	power by APP.	



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Official Website

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