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Support Contact Information
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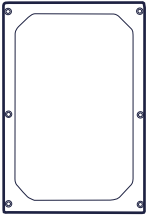
Installation and
Operation Guide

v. 1.2

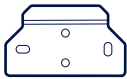
Backup Interface

for use with the Single Phase Energy Hub
Inverter with Prism Technology

What's in the Package



Backup Interface



Mounting bracket



Ferrite bead

Required Tools



Drill



Phillips
screwdriver



Level



DC cable
600V insulated



CAT6 cable



X 3
Mounting
screws



Torque
wrench

SAFETY AND HANDLING INSTRUCTIONS

- Read this entire document before installing or operating the Backup Interface. Failure to do so or to follow any of the instructions or warnings in this document can result in electrical shock, serious injury, or death, or may damage the Backup Interface and other property.
- Do not discard this document! After installation, keep it adjacent to the Backup Interface for future reference!
- Before operating the Backup Interface and inverter, ensure that they are properly grounded. The Backup Interface and inverter must be connected to a grounded, metal, permanent wiring system, or an equipment-grounding conductor must be run with the circuit conductors and connected to the equipment grounding terminal or lead.
- Opening the Backup Interface and repairing or testing under power must be performed only by qualified service personnel familiar with the Backup Interface.

WARNING!



This symbol on the product or in the accompanying documentation denotes a hazard. It calls attention to a procedure that, if not correctly performed or adhered to, could result in injury or loss of life. Do not proceed beyond a warning note until the indicated conditions are fully understood and met.



This symbol on the product denotes risk of electric shock due to stored energy. Before handling the product, wait 17 seconds after disconnecting it from all sources of energy.



This symbol on the product denotes that the product is protected throughout by double insulation or reinforced insulation.

1

Mount Backup Interface

- Select an installation location. Observe clearance of at least 15 cm from other objects.
- Install the mounting bracket and secure it with two screws
- Hang the Backup Interface on the mounting bracket.
- Secure with a screw.

2

Install Conduits

- Release the six screws and remove the Backup Interface cover.
- Install Loads, Grid, Generator (optional) cable conduits as per local regulation.
Conduit size: 25-32mm
- Make sure the ON/OFF switch is in the OFF position.

3

For the Energy Hub inverter installation guide, scan

Cable	Gauge	Torque
L1 Grid	6–16mm ²	6.0 N*m
L1 Loads	4–10mm ²	6.0 N*m
L1 Generator	4–16mm ²	6.0 N*m
Comm/CT/12V	CAT6	

Connect Backup Interface

- Turn off connection to grid by switching off the main circuit breaker.
- Thread the L1, Neutral and Ground wires from the Main Service panel through the supplied ferrite bead. Connect the wires to the L1, Neutral and Ground terminals.
- Connect wires from the Backed-up Loads panel to the L1, Neutral and Ground terminals.
- Use a CAT6 cable for the 12V connection between the inverter (Backup Interface connector) and Backup Interface (6-pin RS485 connector).
- Use a different CAT6 cable for communication between the inverter (Backup Interface connector) and Backup Interface (6-pin RS485 connector).
- Connect the Backup Interface's CT to the inverter's Energy Meter (L1 connector) using spare wires of the communication CAT6 cable.
- Optional, if a generator is installed:** Connect wires from the generator to the L1, Neutral and Ground terminals.

Main CB
up to 100A

Main Service Panel

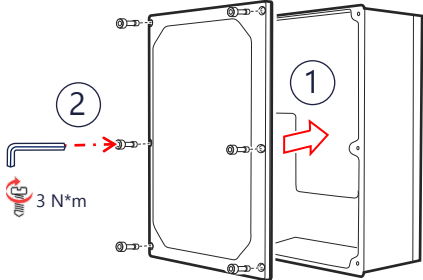
Backed-up Loads Panel

Generator (optional)

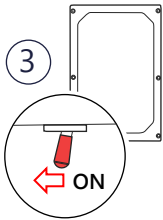


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Close Backup Interface

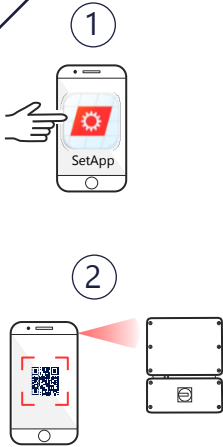


1. Mount the Backup Interface cover.
2. Secure with six screws with a torque of 3 N*m.
3. Toggle on the ON/OFF switch.



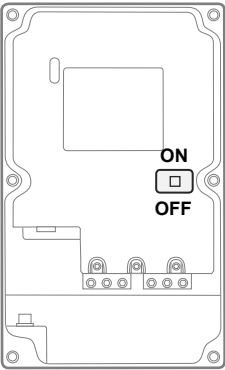
5

Configure Installation



1. Run SetApp.
 2. Scan the QR code on the inverter.
 3. Follow the on-screen instructions.
- Commissioning
 - Power Control
 - Energy Manager
 - Backup Configuration
 - Backup
 - Enable

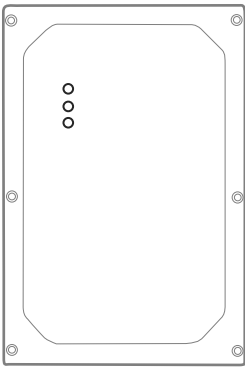
Manually Switching to Grid-Connected Mode



In case of a Backup Interface failure or when necessary, you can reconnect the system to AC power from the grid.
When the system is manually switched to the grid-connected mode, no backup of the loads is possible.
To switch to the grid-connected mode:

1. Turn off the Backup Interface.
2. Turn off the inverter.
3. Move the Manual Control switch to ON.

LED Indications



- | AC | Comm | Fault |
|--------------------------------------|-------------------------------------|-------------------------|
| | | |
| ON
Backup mode | ON
Comm with inverter OK | ON
Fault |
| Blinking
Connected to grid | OFF
No comm with inverter | OFF
No faults |
| All LEDs OFF
No power | | |

Technical Specifications

BI-NAUGN1P		
INPUT FROM GRID		
AC Current Input	100	A
AC Output Voltage (Nominal)	230	Vac
AC Output Voltage Range	160 - 264	Vac
AC Frequency (Nominal)	50	Hz
AC Frequency Range	45 - 55	Hz
Microgrid Interconnection Device Rated Current	100	A
Grid Disconnection Switchover Time	<3	sec
OUTPUT TO MAIN DISTRIBUTION PANEL		
Maximum AC Current Output	100	A
AC Frequency (Nominal)	50	Hz
AC Frequency Range	45 - 55	Hz
Maximum Inverters AC Current Output in Backup Operation	100	A
AC L-N Output Voltage in Backup (Nominal)	230	V
AC L-N Output Voltage Range in Backup	160 - 264	V
AC Frequency Range in Backup	45 - 55	Hz
Overvoltage Category	III	
GENERATOR ⁽¹⁾		
Maximum Rated AC Power	17250	W
Maximum Continuous Input Current	75	Aac
Dry Contact Switch Voltage Rating	250/30	Vac/Vdc
Dry Contact Switch Current Rating	5	A
2-wire Start Switch	Yes	
ADDITIONAL FEATURES		
Installation Type	Suitable for use as service equipment	
Number of Communication Inputs	1	
Communication	RS485	
Energy Meter (for Import/Export)	1.25% accuracy	
Manual Control Over Microgrid Interconnection Device	Yes	
STANDARD COMPLIANCE		
Safety	IEC/EN 62109-1	
Emissions	AS/NZS CISPR 32	
INSTALLATION SPECIFICATIONS		
Supported Inverters	StorEdge single phase inverter, Single phase Energy Hub inverter with Prism technology	
AC From Grid Conductor Cable Area	6 - 16	mm²
Grid / Loads Conduit Size	25 - 32	mm
AC Conductor Cable Area	4 - 10	mm²
Generator Conductor Cable Area Range	4 - 16	mm²
Generator Conduit Size	25-32	mm
Communication Cable Conductor Area	0.02 – 1.5	mm²
Communication Gland Size	5-15	mm
Weight	<4	kg
Noise	< 50	dBA
Operating Temperature Range	-40 to +50	°C
Relative Humidity Range	0-100	%
Protection Rating	IP65	
Dimensions (H x W x D)	390 x 238 x 147	mm
Environmental Category	Outdoor	
Pollution degree	3	
Maximum Altitude Rating	2000	

(1) Requires supporting inverter firmware