

Installer Configuration Tool Guide: REbus Beacon™

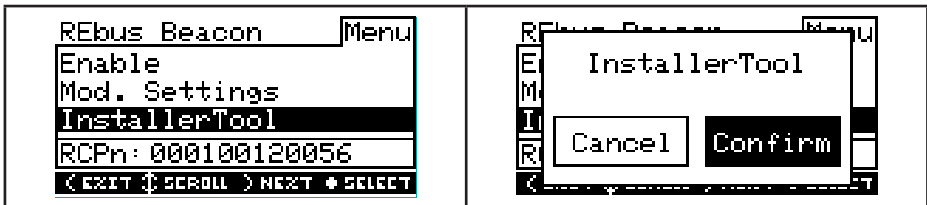
For X7600/X11400 series inverters with Beacon

Introduction

The Installer Configuration Tool allows configuration and provisioning of new Pika Energy Island systems. The interface ensures system compliance with regulation requirements. The interface is only available on Pika Energy systems with a Beacon installed. For Beacon installation and operation instructions, see the REbus™ Beacon Operational Manual.

Accessing the Configuration Tool

To access the Installer Configuration Tool, first navigate to the Beacon page on the inverter front control screen. Select the 'InstallerTool' item from the menu, and click 'Confirm'.



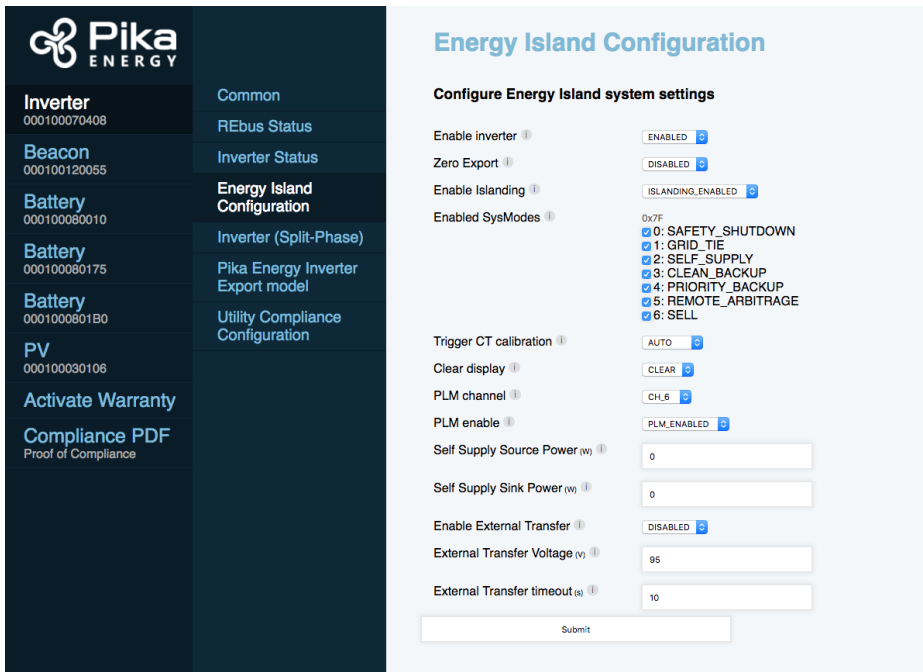
This will activate the Beacon's wifi network. Use your smartphone or laptop to connect to the wifi network titled 'REbus_Beacon_XXXX' (where XXXX is the last 4 digits of the Beacon's RCP number). The password for this network is listed on the back of the beacon in the inverter. The beacon is mounted to the inside of the inverter housing; unstick it to view the password.



Open a web browser to the URL '10.10.10.10'. You should now see the Installer Configuration Tool.

Setting Energy Island Configuration

To configure the Pika Energy Island, navigate to the Inverter tab and click on 'Energy Island Configuration'. Select the appropriate configuration settings and then click on 'Submit' to apply them. This must be done for each inverter shown in the menu. Note that the settings entered will not take effect until the 'Submit' button is clicked



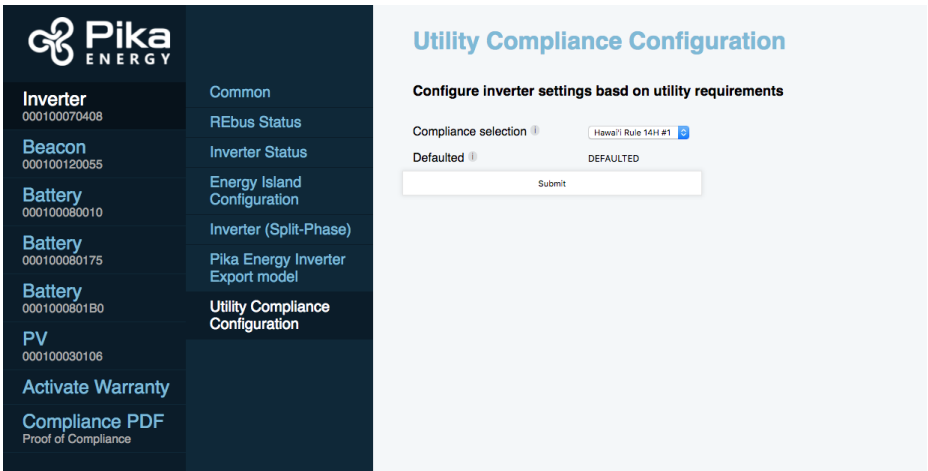
The screenshot shows the Pika Energy Installer Configuration Tool interface. On the left is a dark sidebar with the Pika Energy logo and a list of navigation options: Inverter (000100070408), Beacon (000100120055), Battery (000100080010), Battery (000100080175), Battery (0001000801B0), PV (000100030106), Activate Warranty, and Compliance PDF (Proof of Compliance). The main content area is titled 'Energy Island Configuration' and contains a section 'Configure Energy Island system settings'. This section includes several configuration items: 'Enable inverter' (ENABLED), 'Zero Export' (DISABLED), 'Enable Islanding' (ISLANDING_ENABLED), and 'Enabled SysModes' (On7F: 0: SAFETY_SHUTDOWN, 1: GRID_TIE, 2: SELF_SUPPLY, 3: CLEAN_BACKUP, 4: PRIORITY_BACKUP, 5: REMOTE_ARBITRAGE, 6: SELL). Other settings include 'Trigger CT calibration' (AUTO), 'Clear display' (CLEAR), 'PLM channel' (CHL8), 'PLM enable' (PLM_ENABLED), 'Self Supply Source Power (w)' (0), 'Self Supply Sink Power (w)' (0), 'Enable External Transfer' (DISABLED), 'External Transfer Voltage (v)' (95), and 'External Transfer timeout (s)' (10). A 'Submit' button is located at the bottom of the configuration area.

Setting Utility Compliance

Note: The inverter must be disabled before changing utility compliance settings

To set an inverter to comply with a particular utilities requirements, navigate to the Inverter tab and click on 'Utility Compliance Configuration'. Select the appropriate standard from the dropdown and then click 'submit'. This will configure the inverter to meet the respective requirements. This must be done for each inverter shown. Note that the settings entered will not take effect until the 'Submit' button is clicked. After setting the utility compliance, do not forget to enable the inverter. This can be done from the 'Energy Island Configuration' page.


It is important to verify that after clicking Submit the 'Compliance Selection' shows the desired compliance rule. If the inverter is enabled, the system will not be able to adjust the proper settings. Please disable the inverter prior to setting utility compliance by navigating to the 'Energy Island Configuration' page or from the touchscreen interface on the inverter.



The screenshot displays the Pika Energy interface for setting utility compliance. On the left, a dark sidebar lists various inverters and options: Inverter (000100070408), Beacon (000100120055), Battery (000100080010), Battery (000100080175), Battery (0001000801B0), PV (000100030108), Activate Warranty, and Compliance PDF (Proof of Compliance). The main area is titled 'Utility Compliance Configuration' and contains the instruction 'Configure inverter settings based on utility requirements'. It features a 'Compliance selection' dropdown menu currently set to 'Hawaii Rule 14H #1', a 'Defaulted' dropdown set to 'DEFAULTED', and a 'Submit' button.

Activating the Warranty

To activate the system's warranty, click on the 'Activate Warranty' link on the navigation menu. Fill out the fields, and then click 'Next'. The User fields must be accurate to the purchaser of the system in order for the warranty to be honored. The warranty information must not be submitted until the system is properly configured.



Inverter
000100070408

Beacon
000100120055

Battery
000100080010

Battery
000100080175

Battery
0001000801B0

PV
000100030106

Activate Warranty

Compliance PDF
Proof of Compliance

Device Registration

Owner and Installer information

Owner's First Name * ⓘ	<input type="text" value="Phil"/>
Owner's Last Name * ⓘ	<input type="text" value="Customer"/>
Owner's Email * ⓘ	<input type="text" value="joe@example.com"/>
Address Line 1 * ⓘ	<input type="text" value="35 Bradley Drive"/>
Address Line 2 ⓘ	<input type="text"/>
City * ⓘ	<input type="text" value="WESTBROOK"/>
State/Province * ⓘ	<input type="text" value="Maine"/>
Zip/Postal Code * ⓘ	<input type="text" value="04092"/>
Country * ⓘ	<input type="text" value="United States"/>
Phone * ⓘ	<input type="text" value="12078879105"/>
Installer's first name * ⓘ	<input type="text" value="Rachel"/>
Installer's last name * ⓘ	<input type="text" value="Taylor"/>
Installer's email * ⓘ	<input type="text" value="rachel@pika-energy.com"/>
Installer Company * ⓘ	<input type="text" value="Pika Energy"/>
Installer's phone * ⓘ	<input type="text" value="12078879105"/>

When you click 'Next', an email will be generated that you must submit to Pika Energy in order to register this installation.

When you click 'Next', the Beacon will automatically attempt to register your system. In the event that the Beacon does not have internet connectivity, you will be prompted to send the registration data to Pika via email. Send this email to the pika team without modification. Upon review of the email verifying that the information is accurate, Pika will activate the warranty for this system. If your email browser did not automatically open to this email, you must copy the encoded data from the app and email it to registrations@pika-energy.com

Pika Energy System Registration

registrations@pika-energy.com

Pika Energy System Registration

Warranty Submission Email. Send this email to Pika Energy as is. Your system information required for warranty application is encoded below.

```
{
  "inverters": [
    {
      "Elconfig": {
        "fixed": {
          "ActSysMds": 127,
          "CTTrig": 0,
          "ClrDisp": 0,
          "Conn": 1,
          "GPLMCh": null,
          "GPLMRst": null,
          "IslandEna": 1,
          "PLMCh": 6,
          "PLMEna": 1,
          "Pwd": null,
          "SS_Sink": 0,
          "SS_Sink": 0
        }
      }
    }
  ]
}
```

Proof of Compliance

To generate a proof of compliance PDF, click on the 'Compliance PDF' link from the navigation menu. The PDF validates whether the system has been set up to conform to a particular utility compliance ruleset. Please double check that the system is configured properly by observing the 'In compliance with' line in the PDF. If your utility requires proof of correct configuration, save this PDF and send it to your utility. We recommend that you keep a copy on file as well.



Utility Compliance Report

Model	X7602 Islanding Inverter
RCP Number	000100070408
Firmware Version	11430
Date	2018-04-30 18:28:31 UTC
In compliance with	Hawai'i Rule 14H #1
Islands	O'ahu, Maui, Hawai'i

Energy Island Configuration

Enable inverter	DISABLED
Access code	None
Zero Export	DISABLED
Enable Islanding	ISLANDING_ENABLED
Enabled SysModes	SAFETY_SHUTDOWN, GRID_TIE, SELF_SUPPLY, CLEAN_BACKUP, PRIORITY_BACKUP, REMOTE_ARBITRAGE, SELL
Trigger CT calibration	AUTO
Clear display	NO
PLM channel	CH_6
PLM enable	PLM_ENABLED
Global PLM Reset	None
PLM Group Set	None
Self Supply Source Power	0
Self Supply Sink Power	0
Enable External Transfer	DISABLED
External Transfer Voltage	95.0
External Transfer timeout	10

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