

Model

## TOD-BCU-PNUS2

**Connection Box  
for EIBS16GU2 or EIBS16GU2+  
(Storage Battery System)**

**User's Manual**

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# Safety Requirements

Electrical wiring should be handled by a qualified person dispatched from the seller or installation company. Be sure to carry out installation according to the following precautions. Failure to do so may result in electric shock.

 **DANGER**      Improper handling may lead to serious injury or death of the installer or user.

 **WARNING**      Improper work may lead to serious injury or death of the installer or user.

 **CAUTION**      Improper installation may lead to serious injury or death of the installer or user, and may cause physical damage.

The symbols used in this text have the following meanings:

	Risk of electric shock		Be sure to connect the earth ground.
	Prohibited		Notice

## DANGER

 • **Turn the both Storage Battery Breakers, Inverter Output Breaker, and the Power Switch to "OFF" when installing the Connection Box.**  
Failing to do so may result in electric shock.

## WARNING

 Prohibited	<ul style="list-style-type: none"> <li>• <b>Do not operate when your hands or body are wet.</b> Doing so may result in electric shock.</li> </ul>	 Follow Instructions	<ul style="list-style-type: none"> <li>• <b>Wear electrically insulated rubber gloves when working with electrical wiring.</b> Failure to do so may result in electric shock.</li> <li>• <b>Use only the included parts or specified materials when installing and wiring the unit.</b> Failure to do so may result in electric shock or cause a fire.</li> <li>• <b>Leave all the Storage Battery Breakers, the Inverter Output Breaker and Power SW "OFF" when wiring or when the system is not being operated.</b> Failure to do so may result in electric shock due to high voltage.</li> <li>• <b>Use a dedicated crimp tool to crimp power cable terminals, and fasten to the specified torque.</b> Failure to do so could result in electric shock or cause a fire.</li> </ul>
 Disassembly Prohibited	<ul style="list-style-type: none"> <li>• <b>Never install in a location that is not listed in the Installation Manual or Electric Wiring Work Manual.</b> <b>Never disassemble or modify the unit.</b> Doing so may cause the unit to drop, or may result in electric shock or cause a fire.</li> </ul>		
 Equipment grounding conduct terminal	<ul style="list-style-type: none"> <li>• <b>Make sure the equipment grounding is connected.</b> Not doing so may cause electric shock or cause a fire.</li> </ul>		

## Safety Requirements (Continued)

### WARNING

 Prohibited	<p><b>Do not install in the following locations:</b></p> <ul style="list-style-type: none"><li>• <b>Do not install the Connection Box in locations where it may be exposed to steam.</b> Doing so may damage insulation, resulting in fire or electric shock.</li><li>• <b>Do not install the Connection Box in regions where it may be exposed to salty conditions. (Locations that are within 500 m of coastlines or that are directly exposed to sea spray.)</b></li><li>• <b>Do not install the Connection Box in locations that may flood.</b> Doing so may cause a fire or result in electric shock.</li><li>• <b>Do not install the Connection Box in locations that are very humid or that are poorly ventilated.</b> Installation in a location with high humidity may damage insulation, resulting in fire or electric shock.</li><li>• <b>Do not install the Connection Box in locations that may become very hot (40° or higher) or that remain enclosed (such as in attics, closets, storage rooms, or under floors).</b> Doing so may cause the output suppression function to run, reducing performance. It may also degrade parts, resulting in smoke or fire.</li><li>• <b>Do not install the Connection Box in locations in which oily smoke is emitted, such as in kitchens.</b> Doing so may degrade electric circuits and parts, causing burnout or fire.</li><li>• <b>Do not install the Connection Box in locations where it may be exposed to corrosive gas or liquids (such as in chicken coops, barns, or places where chemicals are handled).</b> Doing so may degrade parts, causing smoke or burnout.</li><li>• <b>Do not install the Connection Box in locations where it may be exposed to cold air.</b> Doing so may cause frost to build up on the product, causing a short circuit or burnout.</li><li>• <b>Do not install the Connection Box upside down, sideways, or horizontally. Do not install it at an angle.</b> Doing so may reduce internal ventilation, degrading parts and causing smoke or fire.</li></ul>
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### CAUTION

 Follow Instructions	<ul style="list-style-type: none"><li>• <b>Install the Connection Box in a location that adheres to the measurements listed in this manual.</b> Otherwise, the product may be unable to ventilate properly. In addition to reducing performance, this may cause errors.</li></ul>
 Prohibited	<ul style="list-style-type: none"><li>• <b>Do not paint the Connection Box.</b> Doing so may cause the temperature inside the enclosure to rise abnormally, resulting in errors.</li><li>• <b>Do not install the Connection Box between transmission antennas and residential receiver antennas.</b> Depending on the installation location, this may cause reception problems with devices such as radios and television receivers.</li><li>• <b>Do not install in locations with strict noise restrictions.</b></li><li>• <b>Do not install in locations with strict electrical noise restrictions.</b></li><li>• <b>Do not install near medical instruments.</b> Doing so may cause medical instruments to malfunction.</li><li>• <b>Do not install in near amateur radio antennas.</b></li></ul>

## Safety Requirements (Continued)

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### <Installer Qualifications>

This Installation Manual assumes knowledge related to handling electrical equipment.

Mounting, operating, servicing, and inspecting this product should be performed by a qualified service person according to regulations. "Qualified person" refers to someone who fulfills the following conditions:

- Has read this Installation Manual thoroughly and understands the content.
- Skilled in mounting, operating, servicing, and inspecting this electrical equipment, and understands its inherent dangers.
- Has received training on operating, servicing, and inspecting this electrical equipment.

### <Precautions>

- Before handling, touch a metallic object to discharge static electricity.

Static electricity may cause the product to malfunction.

- Check the model number of each unit before installing:

Inverter : THD-S55P3BB-US or THE-S55P3BB-USW

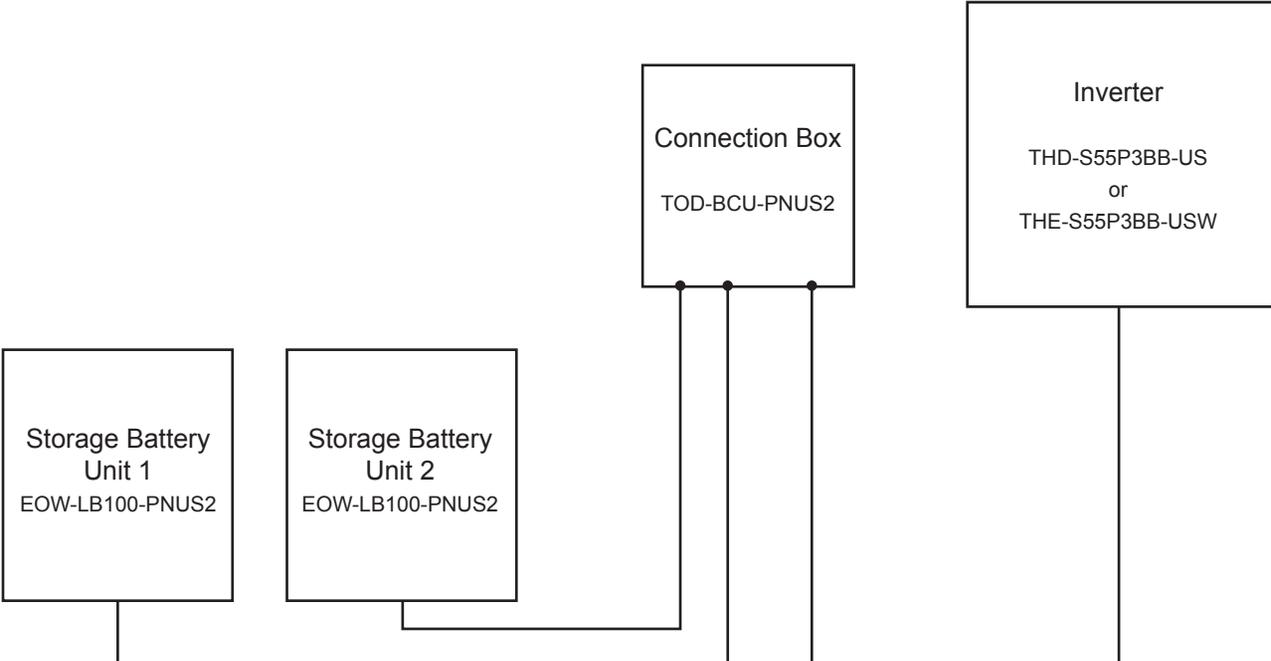
Storage Battery Unit : EOW-LB100-PNUS2

Connection Box : TOD-BCU-PNUS2

# Overview

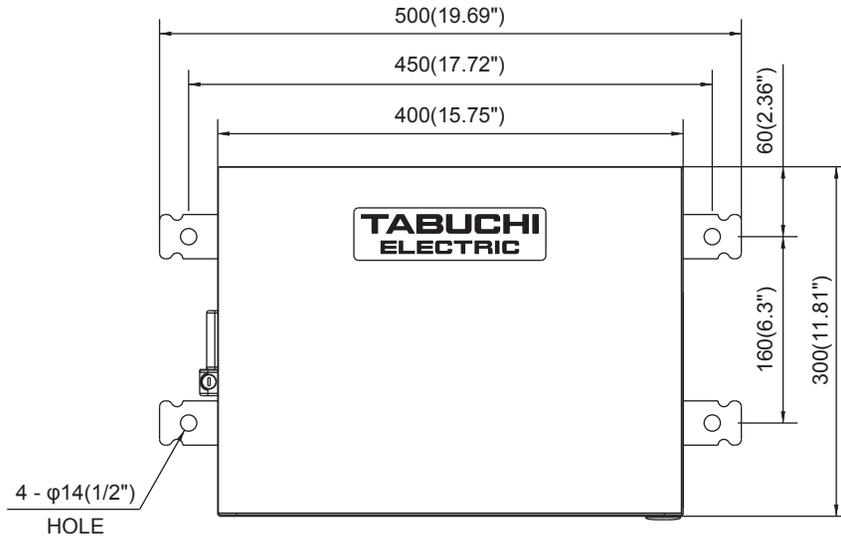
The Connection Box connects to 1 Inverter and 2 Storage Batteries.

## <Connection Box Connection Example>

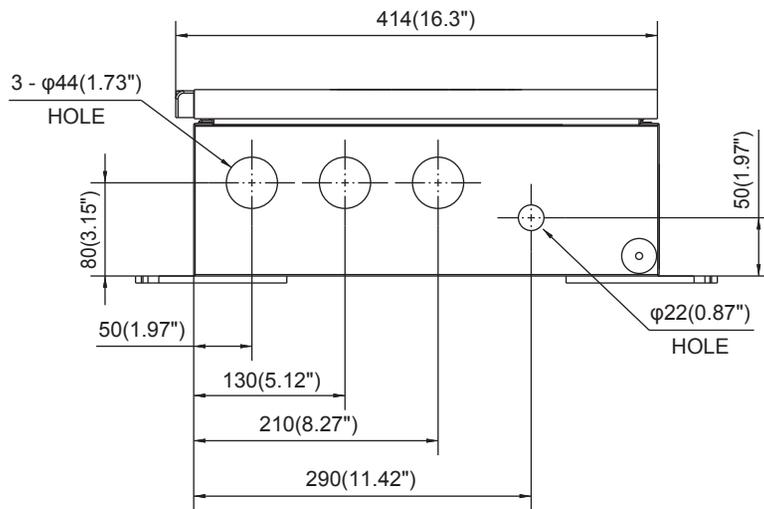
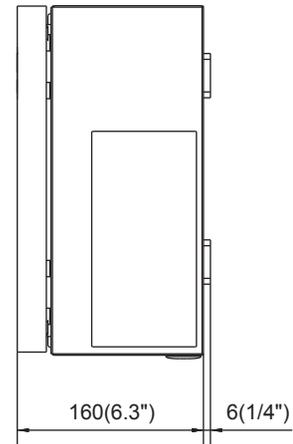


# Dimensional Drawings and Parts

## <Dimensional Outline Drawing>



Unit : mm(inch)



Weight  
Approx. 8.5 kg (18.7lb)

### Included

Connection Box	1
Manual Download Information	1
Key	2
Communication Cable 1 (5 m)	1
Communication Cable 2 (5 m)	1
Battery Numbering Label	1

# Specifications

Item		Specification
Product name		Connection Box
Model number		TOD-BCU-PNUS2
Dimensions		W 500 mm x H 300 mm x D 166 mm (W 19.69" x H 11.81" x 6.54")
Operating Temperature		32°F ~ 104°F (0°C ~ 40°C)
Weight		8.5 kg (18.7 lb)
Installation location		Indoors
DC Input rating from inverter	Nominal Range of input operating voltage	120 V ~ 200 V
	Max. Input Voltage	200 V
	Max. Input Current	26 A
DC Input rating from storage battery system	Number of Connections	2 Units
	Charging Output voltage operation range	60 ~ 100 V (per unit)
	Max. Output Current	26 A

