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| A close up of a sign  Description generated with very high confidence | A close up of a logo  Description generated with very high confidence  SOLAR COOL CUBE 20m3 INSTALLATION MANUAL |

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## **FOREWORD**

Welcome to A World of Enhanced Opportunities

A truism we hope defines the vision we have as you begin the journey with

the Solar Cool Cube.

As you will soon discover, the variation in the Solar Cool Cube’s capabilities will provide you with possibilities in expanding economic and developmental opportunities within your community.

What we have is a cooperation with you, the client, and DGridEnergy to leverage solar energy technologies towards building a hub for your community’s developmental growth.

Solar Cool Cube usage has traversed medical and agricultural industries, to telecommunications and now, enhancing data collation. DGrid Energy looks forward to growing this relationship with you and will continue to provide you with the knowledge of the opportunities the Solar Cool Cube provides you.

... welcome to our **World of Opportunities**.

## **CUSTOMER INFORMATION PAGE**

Client Name: Address:

Primary contact:

Secondary contact:

Primary Telephone contact: Secondary Telephone contact:

Primary E-mail contact: Secondary E-mail contact:

Primary Fax contact: Secondary Fax contact:

**INSTALLATION INFORMATION**

Solar Cool Cube Serial Number: Model Number and Options:

Refrigeration Unit Serial Number:

Solar Module Serial Number: Battery Module Serial Number 1:

Other Serial Number:

Additional Information: Geo-location Information:

Compressor Serial Number 1:

## **ARRIVAL GUIDANCE**

Congratulations!

Now What?

*Contact DGrid Energy to inform us that your Solar Cool Cube package has arrived.*

*Visually inspect the container for*

*any damage and take photos of*

*any identified.*

*Follow the Arrival Checklist that*

*is on the following page and*

*e-mail a copy to DGrid Energy*

Your Solar Cool Cube has arrived in the container.

Before you go ahead and unpack the unit, there are some checks that you need to complete to ensure that your unit has not been damaged in transit.

Please use the checklist on the next page to visually inspect the unit and subsequently document any evidence of damage that may have occurred during transit.

Take photographic evidence of any visible damage and ensure to included it in the documentation that you will send to DGrid Energy for the delivery confirmation procedure.

## **ARRIVAL INSPECTION CHECKLIST**

**Visual Inspection of Exterior**

*Please ensure to capture photographic evidence of any damage you witness, whether external or internal to the*

*container. This information is important for following up with the required insurance coverage.*

*YES NO*

• Is there any visible damage to the container? (A dent to the side of the container;

any puncture to the container wall or edges; fully corroded section of the

container?)

• Is there any visible evidence of leakage of fluids from the container? (Please

describe the color of any leakage evidenced)

• Does the container have any evidence of being forcibly opened?

*Please describe any information you selected ‘Yes’ in the detailed description sections.*

**Visual Inspection of Interior**

• Is there any visible evidence that the components have moved from their original

packed states?

• Does some of the packaging appear to have come undone or been unpackaged?

• Is there any visible evidence inside the container of any leakage of fluids?

*Please describe any information you selected ‘Yes’ in the detailed description sections.*

Detailed Description

• Please describe in detail any damage noted.

*Please ensure to capture photographic evidence of any damage you witness, whether external or internal to the*

*container. This information is important for following up with the required insurance coverage.*

## **INSTALLATION WORK FLOW**

Prepare Site- Concrete Pad, Set Poles, Roofing Structure

## Wi-FiA picture containing indoor, wall, sky, electronics Description generated with high confidence

* All items marked with an asterisk can be installed at the same time. DO NOT MAKE final electrical connections until all pieces are installed.

Set-Up Online Monitoring

Commission System and Bring Refrigeration Online

Program Power System

Wire System Components & Install Power Center \*

Assemble Battery Storage \*

Install Solar Array on Roofing Structure \*

Assemble Refrigeration Unit per Installation Instructions \*

## **SITE PREPARATION**

Tool Guide and Resource Recommendations

***Care:*** *Before assembly, layout the Solar Cool Cube parts on a waterproof tarp for easy access and to prevent any damage to the sections prior to installation*

*Pre-Assembly Preparation*

**A close up of a device

Description generated with high confidence*For Off-Loading***

***For Assembly***

***A close up of a logo

Description generated with high confidence***

**Items Required**

Level

Trowel

Shovel

Cement

STEP 1: Pour the concrete slab or prepare the base below the Solar Cool Cube.



If a concrete slab must be prepared. This should be 4-6 inches (100-150 mm) thick. It should

be above ground level by at least 2 inches (50 mm). (Dimensions below item 3.)

2. Post holes may be included in the concrete structure for building roof supports, or such supports may be framed and anchored on the surface of the pad or may be constructed separately

outside the pad.

3. The solar panel support and roof system must be built. An example is given. The angle of the

roof surface and whether it is flat or A frame.

**A screenshot of a cell phone

Description generated with very high confidence**

## **COOL CUBE SET-UP**



SPECIAL NOTE: During installation, the special wrench provided with the Cool Cube to turn the Speed-Loks may become clogged with foam, remove with a screwdriver

**STEP 1- Fridge Floor Assembly**

**Parts Required:**

Front Floor Panel

Inside Floor Panels

Back Floor Panels

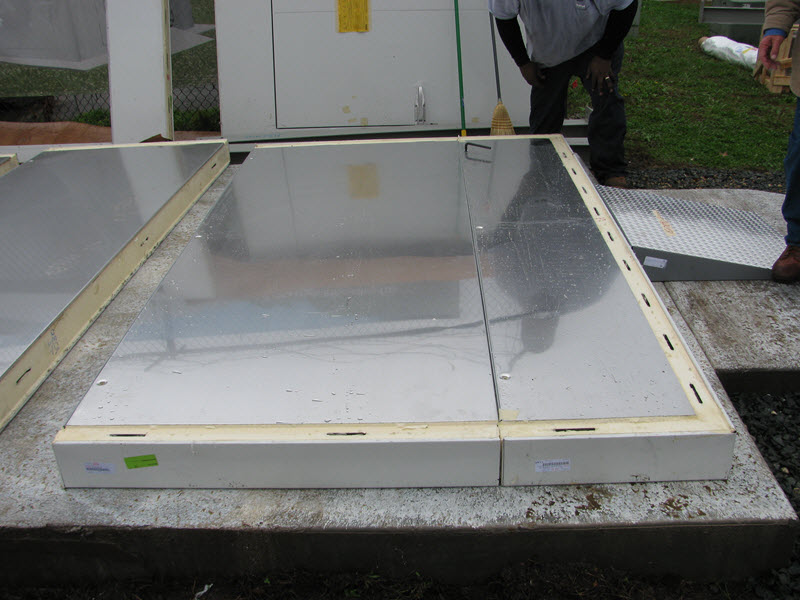
**Tools Required:**

Speed-Lok wrench provided with the unit

1. Lay the floor parts on the concrete slab. The silvered surface and interlocking Speed-Lok slots [circled] should face upwards.

2. Position the “Entrance-side” part first and work backwards to the rear of the unit, connecting each part to the other using the provided torque wrench. (After each part is connected to the preceding one, ensure the joint is closed tight between them and has no gap)

3. Check that the floor is level and making solid contact with the slab.



**Step 2: Front Door and Front Wall Assembly**

**Parts Required:**

Corner Panels

Wall Panels (either side of the door)

Door Assembly

**Tools Required:**

Speed-Lok Wrench

1. First, install the Left-Corner of the Front Wall, make sure to secure it to the Floor Panel with the Speed -Lok. Ensure to use a post-level to check that the corner is vertical.

2. Next, install the Front-Door ensuring to secure it to the Floor Panel and the Left-Corner panel, as shown below.

3. Finally, secure the Right-Corner to the Front-Door panel.



**Post Assembly Checklist:**

If the part is fitted correctly you should:

* Not see any joint gaps between successive floor & wall panel joints
* Open the door freely without any scraping of the Solar Cool Cube unit’s floor
* No open joints between the vertical panels as well as between the floor panel and vertical panels.

**Step 3- Side Walls and Door Top Assembly**

**Parts Required:**

Wall Panels (Side)  
Door Transom Panel

**Tools Required:**

Speed-Lok Wrench

1. Connect the Side Wall Panels starting from the front (the door end) to the back.

2. Ensure to connect the Door Top Panel as highlighted in the picture above. This will be critical

for the assembly of the unit’s roof.

3. When the vertical panels are in place, any joint between panels that you are facing from the

outside will have the pin recesses on the right side and the hook recesses on the left side of

the joint (see adjacent illustration).



A close up of a logo

Description generated with very high confidence

**Post Assembly Checklist:**

If the part is fitted correctly you should:

* Not see any joint gaps between successive panel joints
* Ensure the correct sequence of Side Wall Panels with the silvered surface facing inwards.

**Step 4- Roof Assembly**

**Parts Required:**Front Ceiling Panel  
Inside Ceiling Panel(s)  
Back Ceiling Panel  
  
**Tools Required:**Speed-Lok Wrench

1. Once the sides are up, the Roof panels can be installed. Work from the front of the unit, backwards.

2. Speed Lok the Roof Panels to the Side Walls **as well as** to their adjacent Roof Panels.

3. Finally, secure the Right-Corner panels to the Front-Door panel.





**Post Assembly Checklist:**

If the part is fitted correctly you should:

* Not see any joint gaps between successive roof panel joints with side wall panel joints and between adjacent roof panels

**Step 5- Back Wall and Roof Assembly**

**Parts Required:**

Wall Panels (Back)  
Back Ceiling Panel

Corner Panels

**Tools Required:**

Speed-Lok Wrench

1. The Back Wall panel, Back Corner Panels and Cooling Unit Roof Panel will now be installed.

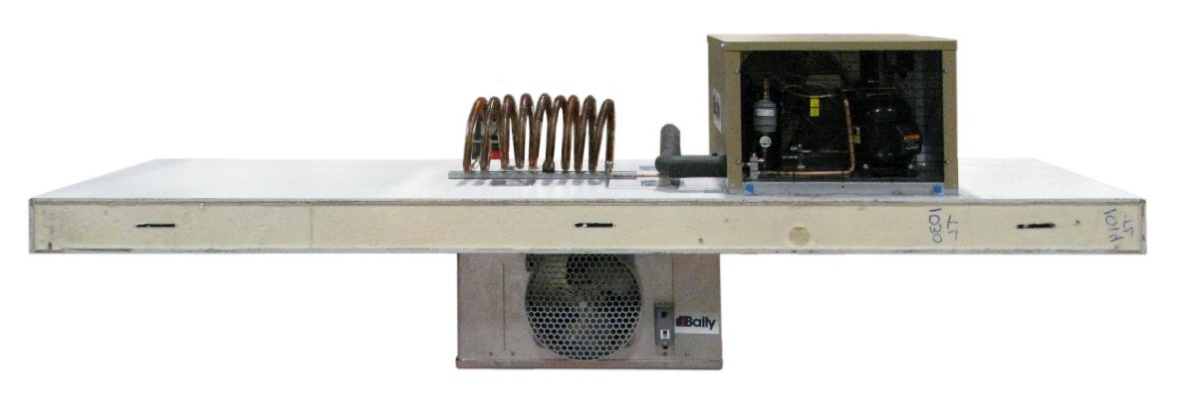
2. Depending on your Solar Cool Cube model, the Cooling Unit Roof Panel weighs at least 160

kilograms, so needs to be handled with care and extra labor.

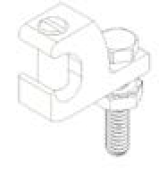
3. After the Back Wall End panels are locked, place the Cooling Unit Roof panel (see detail below) and ensure to tighten the Speed Lok.

4. Complete the back of the unit by installing the Back Wall panels. Ensure the Speed Lok of the

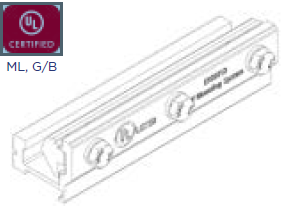
entire back wall has clicked firmly in place.

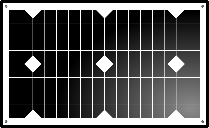


## **SOLAR ARRAY INSTALLATION**

**Components Needed:**  
A close up of a device

Description generated with very high confidenceA close up of a logo

Description generated with high confidence  
Grounding Lugs L-Feet End Clamp Mid Clamp Rail Splice

A close up of an object

Description generated with high confidence

Rails Solar Modules x 12

**Tools Needed:**

Hammer  
Roof Marking Crayon or Chalk Line  
Level  
Drill: 3/16” Pilot Drill Bit  
5/32” Allen Key

Wire Strippers

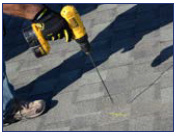
Pitch Meter  
Roof Sealant  
Torque Wrench  
Socket Wrench with ½” Socket

**Installation:**

1. Mark Roof Attachment Locations on Roof with Chalk or Roof Marking Crayon. X should be above a roofing timber or rafter. See typical example below, this may not match the layout needed for your install.

A picture containing sky, outdoor, large

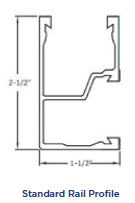
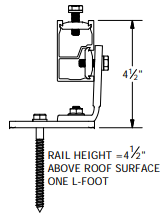
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Attach L Foot to Base: Tighten Flange Nut over L Foot: 10-16 ft lbs
Make sure that L-Foot is extended to highest attachment point


Drill Pilot Holes in each X marked on roof.

Apply sealant to bottom of base



A picture containing electronics, display, photo, tree

Description generated with high confidence

Attach Rails to L-Foot using slide channel nut inserted into rail profile. Tilt the channel nut into the side channel of rail, and tilt to snap into place. Lift the channel nut into highest point on the L-Foot and tighten. Level the bottom rail of the array to the roof and make any adjustments necessary.

1. Attach L Foot to Base: Tighten Flange Nut over L Foot: 10-16 ft lbs
2. Attach Base to Roof: 5/16” Lag Screw, minimum 2.5” of embedment

A cat lying on the ground

Description generated with high confidenceA picture containing photo, outdoor, ground, building

Description generated with high confidence

A picture containing computer, electronics

Description generated with high confidenceA picture containing sitting

Description generated with high confidenceA picture containing indoor, sitting

Description generated with high confidence

Level top rail by moving string down the length of rail, matching the pitch

1. Align top rail with bottom and adjust for roof pitch using a string. Adjust top rail if necessary
2. Tighten with socket wrench
3. Lift up on splice insert and engage upper lip of rail channel and tighten bolts by hand to secure into rails
4. Set rail splice assembly into the side channel of rail, centered between the two rail ends
5. SPLICE RAILS- Align sections of rails

## 

## A picture containing person, indoor, cabinet Description generated with very high confidenceA picture containing person Description generated with very high confidence

## 

1. Tighten all racking hardware to 10-16 ft-lbs

11. Level remaining rails to string line starting from the middle rail

### INSTALLING MODULES TO RAILS

A close up of a device

Description generated with very high confidence

A close up of a device

Description generated with very high confidence

One each of:

1. Bolt
2. Split Lock Washer
3. Mid Clamp
4. Channel Nut

One each of:

1. Bolt
2. Split Lock Washer
3. Self-Adjusting Top
4. Self-Adjusting Bottom

A picture containing furniture, table

Description generated with high confidence

Module Assembly Overview

End Clamp Assembly

Mid Clamp Assembly

1. Roof Attachment Points- L Fee
2. Rails
3. Mid Clamps
4. End Clamps (these are positioned at end of rows)
5. PV Modules (panels)

## A picture containing indoor Description generated with high confidence

1. Slide clamp flush to module

## 

1. Snap channel nut into the top channel or rail

## A picture containing indoor Description generated with high confidenceA picture containing floor, indoor Description generated with high confidence

## 

1. Tighten hardware, 10-16 ft lbs
2. Place next module flush to other side of mid clamp, keeping wiring exposed outside of modules

## **Install the grounding lug prior to installing the last module in each row.**

A close up of a device

Description generated with very high confidence

A close up of a map

Description generated with very high confidence

A picture containing indoor, ground

Description generated with high confidenceA picture containing ground

Description generated with very high confidence

A picture containing person, photo

Description generated with very high confidenceA picture containing photo

Description generated with high confidenceA picture containing indoor

Description generated with very high confidence

1. Use pull tab and pull away from module to engage clamp. Tighten hardware.
2. Lift module and slide the end clamp past the lip of the bottom of the module
3. Slide end clamp into the end of the rail
4. Tighten set screw to clamp ground wire
5. Place grounding wire through slot
6. Drill and deburr a 1/4" hole in back side of rail for lug. Place bolt through hole and attach lug assembly. ONE RAIL PER MODULE ROW

## 

## **INSTALLING BATTERY STORAGE**

**EQUAL LENGTHS**

## 

**BATTERY WIRING  
!!!IMPORTANT!!!  
DO NOT CONNECT FINAL POSITIVE AND NEGATIVE INVERTER CABLES UNTIL POWER PANEL SYSTEM IS INSTALLED. DO NOT TOUCH POSITIVE BATTERY CABLE TO NEGATIVE. CRITICAL DC CURRENT CAN OCCUR.**

**BATTERY INSTALLATION**

**With the Outback Solution, batteries will be pre-wired, and only final connection to the power system is required. Diagram is shown for reference only**

4 series/parallel strings of 6 batteries

Based on system configuration, Ah capacities can vary. Make sure that you set-up the correct capacity number in the Mate3

## BATTERY BASELINE WORKSHEET Complete for reference

Within the first week of operation, complete and keep this worksheet for reference on system performance:

Put battery system on a full charge cycle and record the following parameters (baseline readings):

1. Charger Amperage Output: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Absorption Voltage at Battery Terminals: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Float Voltage at Battery Terminals: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Voltage of each battery when charger is in float mode: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Ambient Temperature:

Allow the battery system to discharge until it reached the low voltage disconnect, and record the following parameters:

1. Run Time: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Capacity Delivered: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Average DC Load (Amps): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Endpoint Voltage at Battery Terminals: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

RETURN BATTERIES TO FULLY CHARGED CONDITION AS SOON AS POSSIBLE

## **OVERVIEW OF SYSTEM WIRING**

A picture containing text

Description generated with high confidence

### A picture containing text Description generated with high confidenceWIRING SOLAR MODULES

A close up of a device

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A cable attached to it

Description generated with high confidenceA close up of a knife

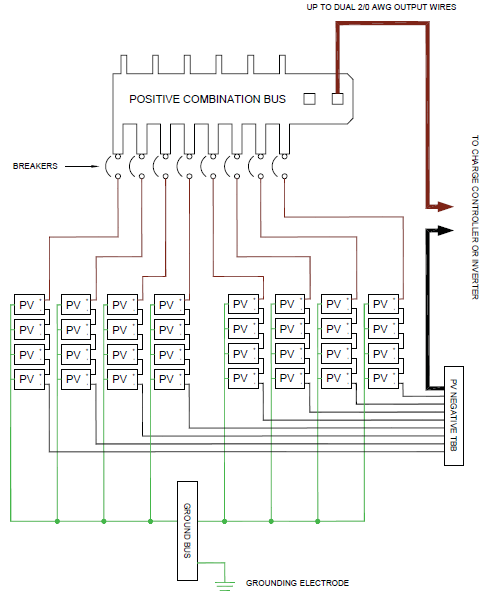
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1. Repeat this process 4 times. (see diagram on page 13)  
   Use wire ties to affix to rails
2. At the solar array, connect 3 modules together by connecting the male to female ends of the connectors
3. Locate 4, Solar Cables, these will be used for final connection to combiner box

4. Cut each cable to length and strip end. Measure before cutting so that they reach combiner box. Run bare cables in conduit to power shed.

### A close up of a device Description generated with high confidenceA close up of a device Description generated with high confidenceWIRING THE COMBINER BOX

### DETAIL OF COMBINER BOX WIRING including PV



## **INSTALLATION OF POWER PANEL SYSTEM AND CHARGE CONTROLLER**

Materials Needed:

* Conduit, strain-reliefs and appropriate fittings
* Electrical Tape
* Conductors/cables for wiring
* ¼” mounting bolts and lock washers
* Wire ties

Tools Needed:

* Screwdrivers
* Drill and drill bits
* Level
* Torque wrenches
* Insulated Pliers
* Pencil
* ½” Wrench
* Ratchet Drive
* Wire Cutters/Strippers
* Multimeter

Your Outback FP1 system has come pre-wired and mounted on a back panel. This panel needs to be installed with at least 3” on either side for proper ventilation. Allow for enough room on either side for wire runs to the mini-panel as well as from the batteries. The panel system should be installed close to the battery bank to avoid long wire runs, but preferably not above the batteries if they are not in an enclosure.

### Wiring Overview

![A close up of a device

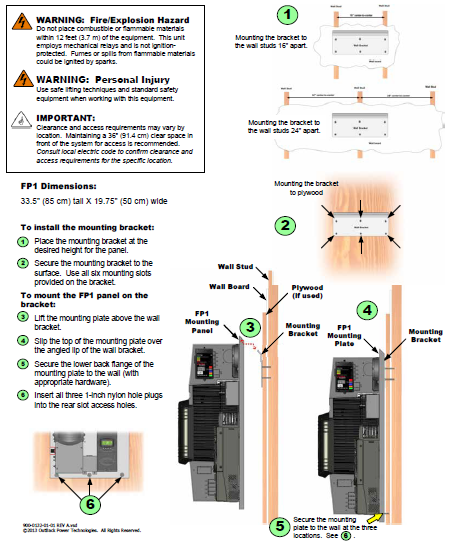
Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD0RXhpZgAATU0AKgAAAAgABAE7AAIAAAAOAAAISodpAAQAAAABAAAIWJydAAEAAAAcAAAQ0OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFNlcXVveWEgQ3Jvc3MAAAWQAwACAAAAFAAAEKaQBAACAAAAFAAAELqSkQACAAAAAzk4AACSkgACAAAAAzk4AADqHAAHAAAIDAAACJoAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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### FP1 System Overview and Component List

![A close up of a device

Description automatically 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## Mounting FP1 System



## Wiring Guidelines

A close up of a map

Description automatically generated

## **Outback Start-Up Procedure**

## **A screenshot of a cell phone Description automatically generated**

## Outback Shutdown Procedure

A screenshot of a cell phone

Description automatically generated

## Mate 3 Set-Up

Refer to the handout as well for more detailed instructions and process tree.

A screenshot of a cell phone

Description automatically generated

## **INSTALLATION CHECKLIST**

Use this checklist as a final review to ensure all essential steps to install the Outback System have been completed before proceeding with the functional test.

**Mounting**

* The Outback enclosure/inverter system is securely mounted in a clean, dry, and ventilated area.
* The system is not mounted in the same enclosure as maintenance-free or vented type batteries.
* The Outback FP1 is mounted in a ‘vertical only’ position.
* There is adequate clearance to access the front and to view/adjust the remote (if installed).

**DC Wiring**

Battery Bank Side:

* An appropriately sized DC cable is routed and attached from the **positive (+)** battery terminal to the bottom battery bank connection of the DC disconnect breaker inside the enclosure.
* An appropriately sized DC cable is routed and attached from the **negative (–)** battery terminal to the bottom battery bank connection of the DC shunt inside the enclosure.
* The DC cable connections and DC hardware are stacked and torqued correctly.

**AC Wiring**

To Main AC Electrical Panel:

* The AC wires are appropriately sized and are routed from the grid/gen side of the EXTERNAL AC TERMINAL BLOCK (inside MMP enclosure) to the circuit breaker in the main AC electrical panel powered by the utility or generator (i.e., main panel).

To Inverter AC Load Panel:

* The AC wires are appropriately sized and are routed from the AC load side of the EXTERNAL AC TERMINAL BLOCK to the main circuit breaker in the electrical panel powered by the inverter (i.e., sub-panel).
* The AC wires connected to the terminal blocks are torqued correctly

**Grounding**

* There is only one bonding connection to ground for the DC electrical system (negative to ground) and one bonding connection to ground for the AC electrical system (neutral to ground). These bonding connections may be connected to the same grounding electrode system (ground rod). If separate electrodes are used, they must be bonded together.
* The exposed metal parts of equipment are properly grounded.
* Equipment grounding conductors are properly sized.

**Electrical Connections**

* Connectors are listed for the intended use and environment (inside, outside, wet, etc.,).
* Pressure/screw terminals tightened to the recommended torque specification.
* Terminals containing more than one conductor are listed for multiple conductors.
* Connectors using flexible, fine-stranded conductors are listed for use with such conductors.
* Re-torque electrical terminal connections in the inverter that may have loosened.

**Conductors and General Wiring Methods**

* Conductors are rated for the application and the environment.
* Standard building-wire conductors and appropriate wiring methods are used.
* The DC and AC color codes for the ground conductors are the same – grounded conductors are white and equipment-grounding conductors are green, green/yellow, or bare (no insulation).
* All wiring insulation must have a minimum rating of 150V, 75°C when using only 120 VAC power/inverter; or, with a minimum rating of 300V, 75°C when using 120/240 VAC power/inverter.
* Strain reliefs/cable clamps or conduit are used on all cables and cords.
* Conductors between the inverter and battery bank are required to be installed in conduit.
* No multi-wire branch circuits when single, 120 VAC inverters are connected to 120/240 VAC load centers.

***Note*:** *A multi-wire branch circuit is a three-wire circuit with a shared neutral for two, 120 VAC branch circuits.*

**Overcurrent Protection**

* Properly sized and rated disconnects and overcurrent devices are used in the ungrounded conductors in each circuit (AC and DC).
* Overcurrent devices in the DC circuits are listed for DC operation.
* DC overcurrent protection is provided at the batteries when they are located in a separate room, or more than five feet away from the MMP enclosure.
* The DC overcurrent protection device and battery cables to the inverter are sized for the inverter’s DC input current.

***Note*:** *Inverter’s DC input current is calculated using rated AC output in watts, divided by lowest battery voltage, divided by inverter efficiency at that power level.*

* When the DC disconnect inside the enclosure is not used as the DC overcurrent device, high interrupt, listed, DC-rated fuses or circuit breakers must be used in the battery cable circuits.

**Batteries**

* Battery terminals and other live parts are guarded, and adequate working space around the battery bank is provided.
* Batteries are installed in well-vented areas (garages, outbuildings) and not in living areas.
* Adhere to the “IMPORTANT BATTERY SAFETY INSTRUCTIONS” at the beginning of this manual.

**Marking**

* Battery bank is labeled with maximum operating voltage, equalization voltage, and polarity.
* Utility Back-up Systems: a visible exterior sign indicating the building contains an inverter backup system and identifies the locations of the disconnects.
* An electrical system supplied by a 120 VAC only inverter must include a label warning against connecting multi-wire branch circuits.
* All required “WARNING” and “CAUTION” signs are installed in the proper locations, as required in the NEC/CEC.

## **FUNCTIONAL TEST CHECKLIST/COMMISSIONING PROCEDURE**

After all electrical connections from the Outback FP1 Systems, batteries, AC source, and sub-panel have been completed, follow these steps to test the installation of the system and to verify proper operation of the BYPASS switch breakers.

**WARNING:** During this functional test, the front cover is removed and exposes personnel to potential dangerous voltages and shock hazards inside the FP1 enclosure that may cause damage, injury, or death. If you do not have experience working with AC and DC voltage circuits, do not attempt this test—use an experienced electrical installer.

**CAUTION:** During this functional test, if any step cannot be verified or is incorrect,

stop and recheck/correct the connections before proceeding to the next step.

1. Turn OFF all AC breakers (i.e., **INV BYP**, **INV IN**, and **INV OUT**).

**CAUTION:** Use a multimeter to verify the correct DC voltage for your inverter model (i.e., 48-volt battery bank for a 48-volt inverter) and to ensure the polarity of

the battery voltage is correct [battery **positive (+)** connected to the inverter positive

terminal thru the DC circuit breaker and battery **negative (–)** connected to inverter

negative terminal thru the DC shunt].

**CAUTION:** Prior to turning on the inverter, turn OFF all inverter loads in the inverter

load panel (i.e., sub-panel).

1. After verifying that the battery bank voltage is proper for your inverter and that the battery cable connections are the correct polarity, apply battery power to the inverter by turning the DC disconnect breaker to the ON (up) position.
2. Turn the inverter ON.
   1. Connect an AC voltmeter to the **Inverter Output Terminals** and verify the correct AC output voltage of the inverter (depends on your inverter AC output voltage).

**Info:** If the inverter does not turn on—verify the DC connections to/from the inverter

to the battery.

**Info:** If the inverter has a Search mode feature, the inverter’s AC full output voltage

will not be present/correct until Search is turned OFF, or by connecting a large enough

light bulb to bring the inverter out of Search. DO NOT connect anything but a light bulb

until all wiring and voltages are confirmed to be correct. Use a light bulb greater than 5 watts (5 watts is the default setting) to bring the inverter out of Search mode; or, the Search mode can be turned OFF with a remote control (Mate3).

1. Turn ON the **INV OUT1** breaker(s) in the enclosure.
   1. Ensure the inverter AC output voltage is passing thru the **INV OUT** (Inverter Output) breaker by verifying the correct output voltage is present on the **AC Output Terminals**.
2. Turn ON the **INV BYP2** breaker(s) in the enclosure.
   1. Ensure the inverter AC output voltage is no longer present on the **AC Output Terminals**.

***Note2*** – *The INV BYP and INV OUT breakers are interlocked together. Physically turning ON will turn OFF the other, and vice-versa.*

1. Apply power from an external AC source (utility or AC generator) to the **AC Input Terminals**.
   1. Connect an AC voltmeter to the **AC Input Terminals** and verify that the AC voltage from the external AC source is present. Connect the AC voltmeter to the **AC Output Terminals** and check that the external AC source power is passing thru the **INV BYP** (Inverter Bypass) breaker by verifying the AC source voltage present earlier is also present on the **AC Output Terminals**.
2. Turn ON the **INV OUT2** and **INV IN** breaker(s) in the MMP enclosure.
   1. Ensure the AC source power is passing thru the **INV IN** (Inverter Input) breaker by verifying the AC source voltage present earlier (in Step 6) is also present on the **AC Output Terminals**.
3. After all the AC voltage checks pass, install the front cover and manually open and close all circuit breakers, checking for correct alignment and free operation. If all the steps pass, the system is ready for use. If the any of the steps fails, recheck your wiring connections and/or refer to the Troubleshooting section for your inverter manual.

## MAINTENANCE GUIDE

Exterior Panels

* WEEKLY: Clean off grime or dust from the panel surfaces.
* MONTHLY: Examine the sealing tape to ensure a proper seal is still being maintained.

Interior Panels

* REGULARLY: Wipe the interior panels with clean water and dishwashing liquid. Do not use any chemical cleaners on the silver surface.

Solar Modules

* REGULARLY: Wipe the solar panels clean of dust debris to ensure optimal performance.

Battery Storage:

* REGULARLY: Monitor battery performance and state of charge (SOC) regularly on the system. Report any lack of charging on the maintenance log and to technical support.

Power System:

* REGULARLY: Check online status of solar performance, report any irregularities to DGrid Energy.

Prevention:

* To maintain properly internal cooling temperature, make sure that the door closes each time it is opened.
* Keeping the door shut will prevent condensation and refreezing of water on the unit’s compressor

Roof Panels:

* WEEKLY: Clear off any debris or dust that settles on the roof.
* REGULARLY: Remove any nesting material from animals as soon as it is identified.

Cooling Unit Roof Panel:

* WEEKLY: Keep the Cooling Unit vents clear of any debris or animal nesting

Cool Cube Interior:

* Ensure to keep the door shut to prevent cooling loss.
* DAILY: Keep the floor free of dirt or debris by sweeping with a non-abrasive broom.

Replaceable Items:

* Change the light bulb (Part# \_\_\_\_\_\_\_\_\_\_\_\_\_) when it fails with one of similar specification.
* Fill up the compressor with the prescribed coolant as per the directions on the unit.

## MAINTENANCE LOGS (make copies of this sheet and use weekly)

Week Beginning: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Week Beginning: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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## SERVICE LOG (make copies of this sheet and use to report issues)

Detailed Description of Fault

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Serial Number of Affected Part(s) Repair? Replace?

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\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Service Contractor

Company Name: Technician’s Name:

Telephone No: Email:

Resolution Status:­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## Technical Contacts

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