MATE Series Overview
System Display and Controller
Contents

Basic Navigation........................................................................................................ 2

Menu Maps -
  MATE System Display and Controller Basic Setup....................... 2
  MATE System Display and Controller Advanced Setup........... 3
  MATE System Display and Controller AGS Menu...................... 4-5
  Inverter Setup..................................................................................................... 6-7
  Charge Controller Setup..................................................................................... 8
  FLEXnet DC Setup............................................................................................. 9-10

WARNING: SHOCK HAZARD
Consult the MATE Owner's Manual for detailed information on safety and installation procedures.
How to Read and Navigate the Menu Maps

The following pages are intended as a quick reference guide for the menu map of the MATE Series System Display and Controller. This document is for use with the products MATE and MATE2. It cannot be used with the MATE3.

See the MATE Series Owner’s Manual for detailed information about the menu structure, MATE features, and hot/soft key functions. See the inverter, charge controller, and DC monitor manuals for detailed information about specific features and functions that are controlled by the menus.

To return to the Main screen at any time:

Main Menu
Press and hold the 2 left soft keys at the same time. Release when the Main screen appears.

Soft Key Color Code:
- ● Available menus
- ○ Select this option to proceed
- ▼ Adjusts the set points value
- ± Selects a function (e.g., ON, OFF, AUTO)
- ▼ Switches between devices on the ports of the Communications HUB
- ➤ Navigation colors

Soft key functions will vary depending on the selected menu and are defined by the word above the key in the LCD.

Navigation:
- ● ➤ Indicates a 1-screen movement within a Menu. These are color coded according to their function or purpose.

If accompanied by a dashed line, pressing that soft key will return the user to the location identified by the dashed line. This will vary depending on the devices in the system.
Setting up the MATE or MATE2 includes:
1. Setting the Clock (date and time)
2. Setting the screen contrast.
3. Setting the Glow time.
4. Setting how the Summary screens are displayed.
5. Setting communication options.

Repolling

To return to the Main screen at any time:
Press and hold the 2 left soft keys at the same time. Release when the Main screen appears.

After Resetting Comm Errors

Setpoints (Current Day):
Monday through Sunday
Setpoints (Current Month):
01 through 12
Setpoints (Current Date):
01 through 31
Setpoints (Current Year):
09 through xx
Setpoints (Current Hour):
01-12AM or 01-12PM
Setpoints (Reset Sec): Resets seconds to 00

Varies depending on attached devices. Automatically returns to the Main Screen.

Press and hold the 2 left soft keys at the same time. Release when the Main screen appears.
**Advanced Setup Menu**

Changing more detailed operating parameters requires access to the Advanced Setup Menu.

Accessing the Advanced Menu:

1. Press the <INC> soft key until "141" is displayed on the LCD.
2. Press the <ENTER> soft key to accept the password and move forward to the Device Selection Menu.

**Page 1**

The AGS Menu is shown on the next page....

**Page 2**

**Page 3**

**Page 4**

**Resetting the MATE2 to Factory Defaults**

To return to the Main screen at any time:

Press and hold the 2 left soft keys at the same time. Release when the Main screen appears.

**Charge Controller and FLEXnet DC Menus**
Advanced Setup Menu
Automatic Generator Start (AGS)

ags enabled:          No
ags control:     MAN-OFF
dc genset:            No
dc genset:            No
dc genset:            No
dc genset:            No
cool down time         0
warm up time           0
fault time 17 minutes
end of AGS Setup

Choose category:
QUIET
SETUP
TIME
START

weekday          12:00A
quiet time start
DOWN    UP         CHANGE
weekday          12:00A
quiet time stop
DOWN    UP         CHANGE
weekend          12:00A
quiet time start
DOWN   UP         CHANGE
weekend          12:00A
quiet time stop
DOWN   UP         CHANGE
end of quiet time

volt start 24.4 Vdc
24 hr setting
DOWN   AGS   INC   DEC
volt start 24.0 Vdc
2 hr setting
DOWN   UP INC   DEC
volt start 22.0 Vdc
2 min setting
DOWN  UP INC   DEC
end of VOLTAGE

GEN START CONTROL
currently:       MAN-OFF
OFF   AUTO    ON    OK

WEEKDAY QT START
adj hour         12:00A
DOWN   INC    DEC
adj min          12:00A
INC    DEC  DONE
WEEKDAY QT STOP
adj hour         12:00A
DOWN   INC   DEC
adj min          12:00A
INC    DEC   DONE
WEEKEND QT START
adj hour         12:00A
DOWN   INC   DEC
adj min          12:00A
INC    DEC   DONE
WEEKEND QT STOP
adj hour         12:00A
DOWN   INC   DEC
adj min          12:00A
INC    DEC   DONE

To return to the Main screen at any time:
Press and hold the 2 left soft keys at the same time. Release when the Main screen appears.
Advanced Setup Menu
Automatic Generator Start (AGS) (Continued)

To return to the Main screen at any time:
Press and hold the 2 left soft keys at the same time. Release when the Main screen appears.
Inverter Setup

Basic Setup Menu

Setting up the basic Inverter functions includes:
1. Selecting the AC input (Grid or Gen).
2. Setting the Search function.

Advanced Setup Menu

Changing more detailed operating parameters requires access to the Advanced Setup Menu.

Accessing the Advanced Menu:

1. Press the <INC> soft key until "141" is displayed on the LCD.
2. Press the <ENTER> soft key to accept the password and move forward to the Device Selection Menu.

To return to the Main screen at any time:
Press and hold the 2 left soft keys at the same time. Release when the Main screen appears.

NOTE: The values shown in this illustration will vary depending on the model of inverter.

Continued on next page….
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**Advanced Inverter Setup Menu (continued)**

### Page 1

- **ADV/FX/PAGE1**
  - choose category

### Page 2

- **ADV/FX/PAGE2**
  - continue from previous...
  - **ADV/FX/GRID**
    - ac 1/grid
      - 108 Vac lower limit
      - 140 Vac upper limit
      - 48.0 Aac input limit
      - 6 cyclestransfer delay
      - grid programming
    - completed

### Page 3

- **ADV/FX/SELL**
  - gen input
    - connect delay
  - ac 2/gen
    - 108 Vac lower limit
    - 140.0 Aac upper limit
    - 48.0 Aac input limit
    - support
    - 60 cycles transfer delay
    - grid programming
    - completed

### Page 4

- **ADV/FX/STACK**
  - stack 1-2PH Master phase
  - stack Classic Slave phase
  - stack OB Slave L1 phase
  - stack OB Slave L2 phase
  - stack 3PH Master phase
  - stack 3 PH Slave phase
  - power save level 0 master adjust only
  - stacking setup completed

**Note:** The values shown in this illustration will vary depending on the model of inverter.
Advanced Setup Menu

Changing more detailed operating parameters requires access to the Advanced Setup Menu.

Accessing the Advanced Menu:

1. Press the <INC> soft key until "141" is displayed on the LCD.
2. Press the <ENTER> soft key to accept the password and move forward to the Device Selection Menu.

To return to the Main screen at any time:
Press and hold the 2 left soft keys at the same time. Release when the Main screen appears.
Main Screen

**Main Screen**

- **Device:** Choose device: FX, CC, DC, MAIN
- **Status:** Current status:
  - **SUM:** Summarize
  - **STATUS:** Status
  - **SETUP:** Setup
  - **ADV:** Advanced

**Status Screen**

- **Battery Discharging:**
  - **State of Charge:** 100%
  - **DC Now:** 25.4V 100%
  - **IN:** 0.4A 0.010kW
  - **OUT:** 1.6A 0.040kW
  - **BAT:** -1.2A -0.030kW
- **DC Today:** min SOC 97%
  - **IN:** 247AH 12.84kWH
  - **OUT:** 240AH 12.50kWH
  - **Bat:** 7AH 0.34kWH

**Battery Screen**

- **Battery:**
  - **Voltage:** 25.4V 100%
  - **Charge:** 0.3A -0.010kW
  - **Net:** 0.4A 0.000kWH
- **Days Since Full:** 1.1
- **FX Total:** 25.4V 97%
- **Inverting:** 0.000kW
- **AC Loads:** 0.000kW
- **Buying:** $0.000kW

**State of Charge Screen**

- **Summary Screen #1:**
- **Summary Screen #2:**
- **Summary Screen #3:**
- **Summary Screen #4:**

**Note:** The values shown in this illustration will vary depending on the model of inverter.

Press this soft key to proceed. This screen will also automatically move forward after a user-defined period of time.
Accessing the Advanced Menu:

NOTE: The values shown in this illustration will vary depending on the model of inverter.
About OutBack Power Technologies

OutBack Power Technologies is a leader in advanced energy conversion technology. Our products include true sine wave inverter/chargers, maximum power point tracking charge controllers, and system communication components, as well as circuit breakers, batteries, accessories, and assembled systems.

Contact Information

Telephone: +1.360.435.6030 (Main)  
+1.360.618.4363 (Technical Support)  
+1.360.435.6019 (Fax)

Mailing Address: OutBack Power Technologies Sales & Marketing  
5917 - 195th Street N.E. 6115 – 192nd Street NE  
Arlington, WA 98223 USA Arlington, WA 98223 USA

E-mail: Support@outbackpower.com

Web Site: www.outbackpower.com

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Warranty Summary

OutBack Power Technologies warrants that the products it manufactures will be free from defects in materials and workmanship for a period of five (5) years subject to the conditions set forth in the warranty detail, found in the product manual.

OutBack Power Technologies cannot be responsible for system failure, damages, or injury resulting from improper installation of their products.

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