



bio-METRICA

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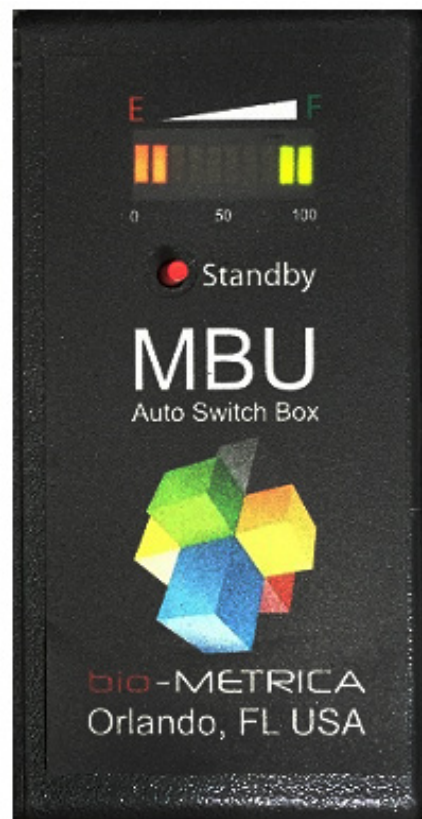
Automatic Switchbox - ASB™

The **Bio-Metrica Automatic Switch Box - (ASB)** is a custom-made, compact power control system that can change operating modes without operator intervention. It can coordinate between grid, solar and battery power, ensuring the connected equipment is always kept online.

For portable systems that contain multiple components and are driven by a large battery, the ASB simplifies power management into one box. It is able to manage a variety of power inputs and outputs to ensure portable systems always have power. .

It performs power management utilizing a custom-designed power control module with a variety of operating modes to ensure power is not consumed needlessly.

The **ASB** has been deployed in mobile biometric units all across the continent of Africa and is well suited for use in applications for organizations of most sizes.



How Does it Work?

ASB has four operating modes.

Grid Power:

- Works off of available AC power source
- Functions within AC power range of 120v-240V AC
- Charges internal batteries
- All items are active and drawing power

Battery Mode:

- Internal battery operates on 12.8v DC
- Components function on 120V AC generated by an inverter
- Allows operation of in areas where there is no available power source
- Discharges internal batteries
- All items are active and drawing power

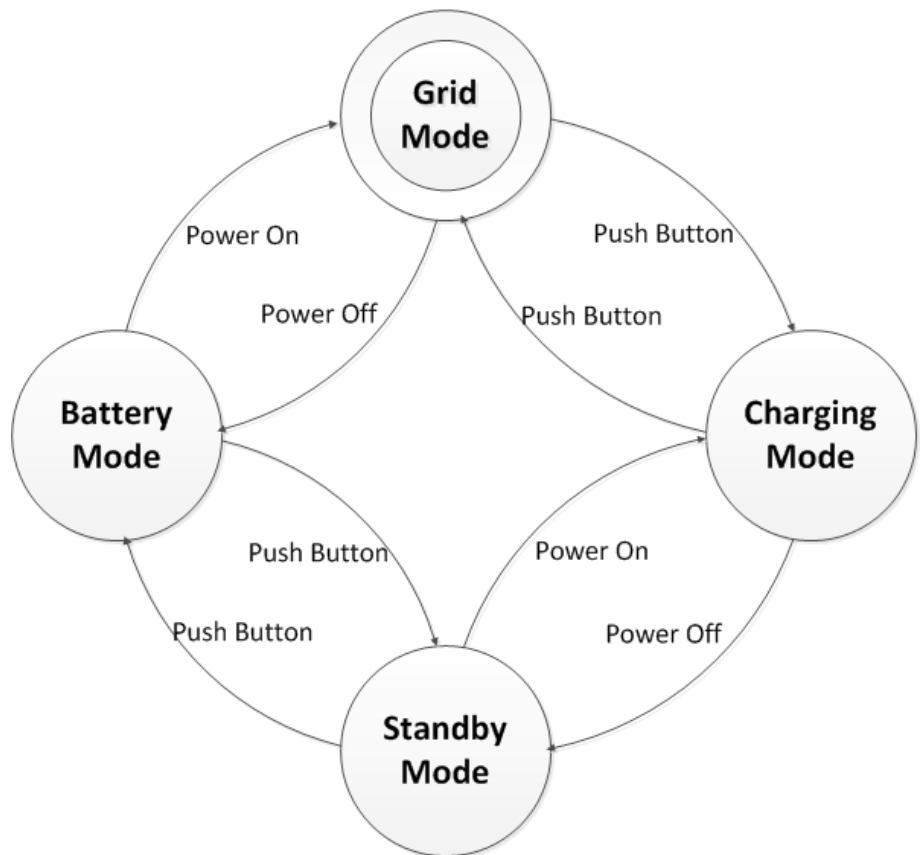
Standby Mode:

- All items are off
- Does not discharge internal batteries

Charging Mode:

- This is the default charging mode
- Works off of available AC power source
- Functions within AC power range of 120v-240V AC
- Charges internal batteries
- All items are off

ASB main State Machine



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