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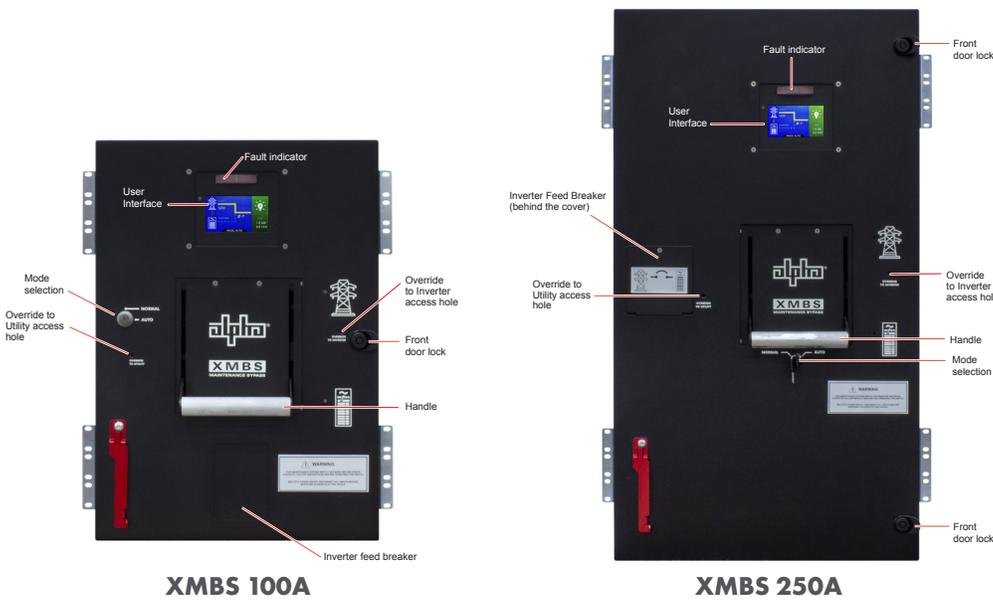
XMBS

Quickstart Guide

The Alpha XMBS is an make-before-break External Maintenance Bypass Switch (XMBS) with Advanced Load Protection and Semi-Automatic Transfer Switch functionality:

- Advanced Load Protection automatically validates and synchronizes the AC Sources before completing the transfer - preventing a dropped load in case of source malfunction or operator error.
- Semi-Automatic Transfer function automatically transfers to Utility source in case of an Inverter failure – recovering a dropped load without the delay of a service response.

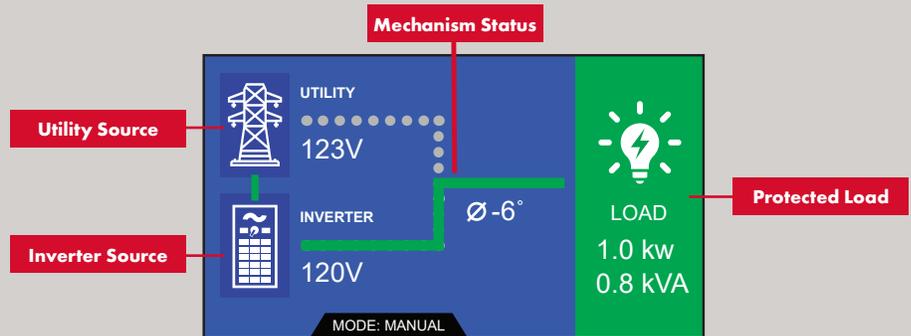
This guide describes how to operate the XMBS in Normal and Auto operating modes. It is also possible to over-ride the control protection, but this should only be done if no power source is available or a system malfunction has been verified. Refer to owner’s manual for details.



Note: The fault indicator is a hardware check that the mechanism is working. It is not illuminated based on load or source failure which are anticipated conditions for this device. When illuminated avoid using the switch and contact service immediately.

Graphical User Interface

Note: tap any labelled area of the screen for details about that element.

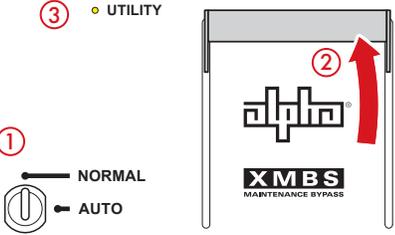
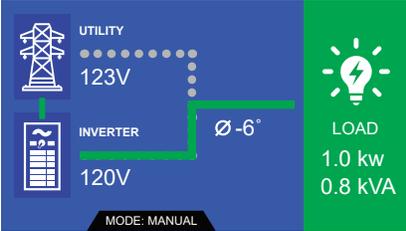
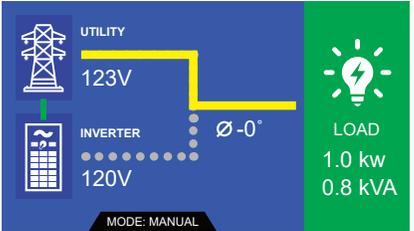


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Normal (Manual) Operation

With the Mode Switch in the Normal position the operator selects the desired source using the handle and the XMBS transfers after validating and synchronizing the sources. The images below show an Inverter to Utility transfer; but the same process also works for transfer in either direction.

Operating Steps:

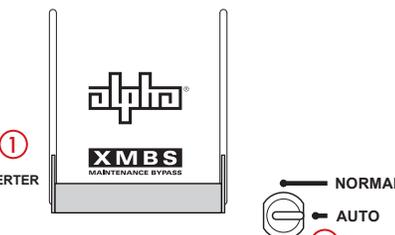
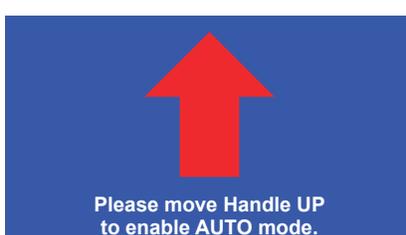
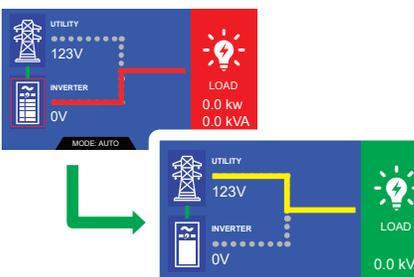
Operator Initiates Transfer	Load Protection & Phase Synchronization	Switch Transfer Complete
 <ol style="list-style-type: none"> Turn the Mode switch to NORMAL. Move the handle to the UTILITY position. The UTILITY LED turns on yellow. The INVERTER LED remains green. 	 <ol style="list-style-type: none"> The External Bypass checks the source and requests synchronization. 	 <ol style="list-style-type: none"> External Bypass releases transfer mechanism when sources are in phase. Transfer complete. LCD shows UTILITY supporting the critical load.

Important Note: When switching the mode from Auto to Normal make sure the switch handle is in the Inverter Position. Otherwise the switch will automatically switch to Utility.

Auto Transfer Operation

In the Auto Mode the XMBS starts connected to the Inverter and switches automatically to the Utility when power fails. Prior to initiating Auto Mode follow the Normal (Manual) Operation instructions above to connect the load to the Inverter.

Operating Steps:

Operator Energizes Transfer	Load Monitoring	Load Recovery
 <ol style="list-style-type: none"> Start with External Bypass in Inverter position. Note: Verify both handle position and LED. Turn the Mode Switch to AUTO. 	 <ol style="list-style-type: none"> Move the handle to the UTILITY position. The UTILITY yellow LED turns on. The INVERTER LED remains green. The External Bypass continuously monitors the output voltage and will only transfer if output fails. 	 <ol style="list-style-type: none"> If inverter output voltage fails, the transfer mechanism automatically releases to UTILITY position.



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