



Hybrid Bidirectional Inverters

MLT PowerStar Range

An Introduction

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97 Garfield Road, Kenilworth, Cape Town, www.mlt drives.com



Hybrid Bidirectional Inverters

MLT PowerStar Range

FRONT VIEW

What we offer:

Keypad and Display

Inverter Rating and Serial Number

AC and battery connections (remove side cover)

Pre-Charge Button

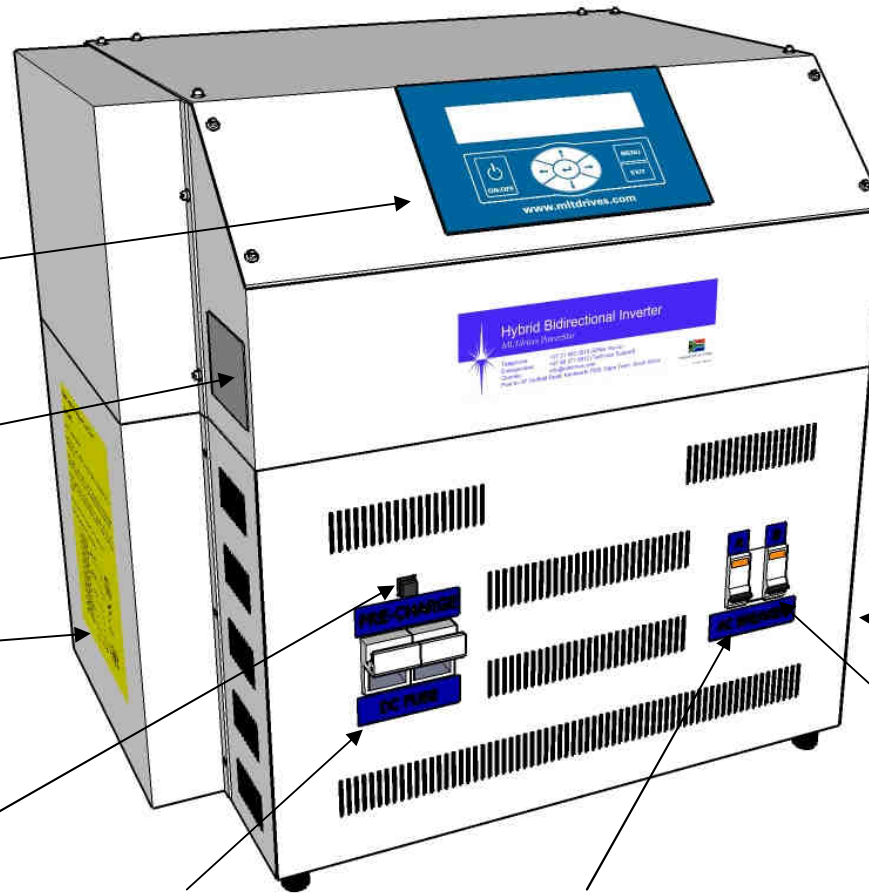
DC - Fuses

Source A (Grid) Input Breaker

Control Box

6 KVA Module

Source B (Generator) Input Breaker



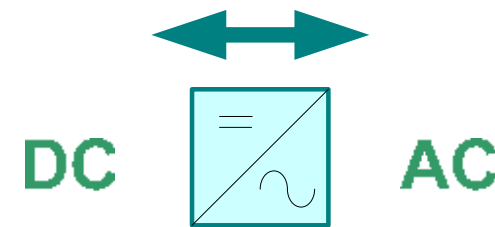
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What does this machine do?

- Bidirectional Inverter from AC to DC
- Seamless Transitions
 - Grid/Generator Tied to Stand Alone Inverter Mode
- Output Voltage Regulation OR
- Power Factor Correction
- Programmable Battery Charge Cycles

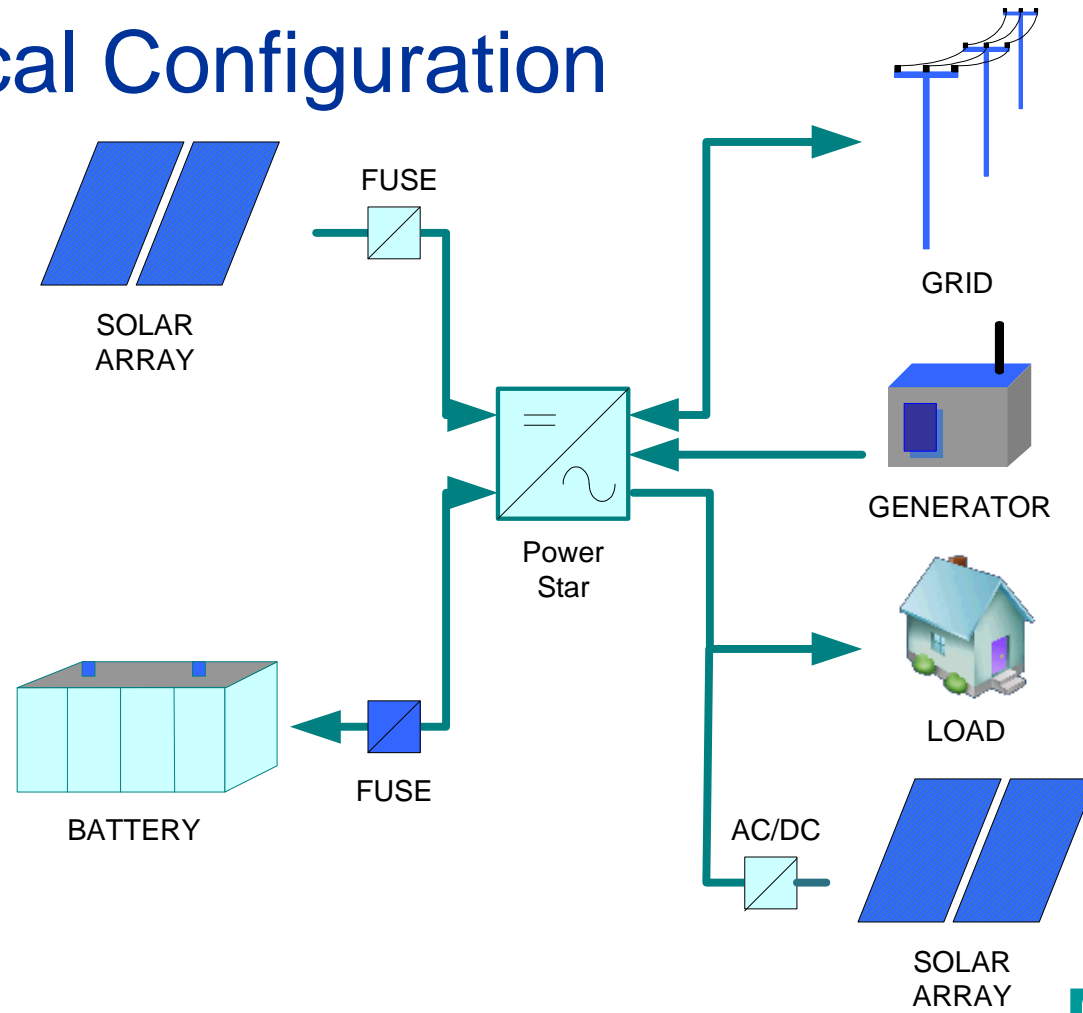




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Typical Configuration



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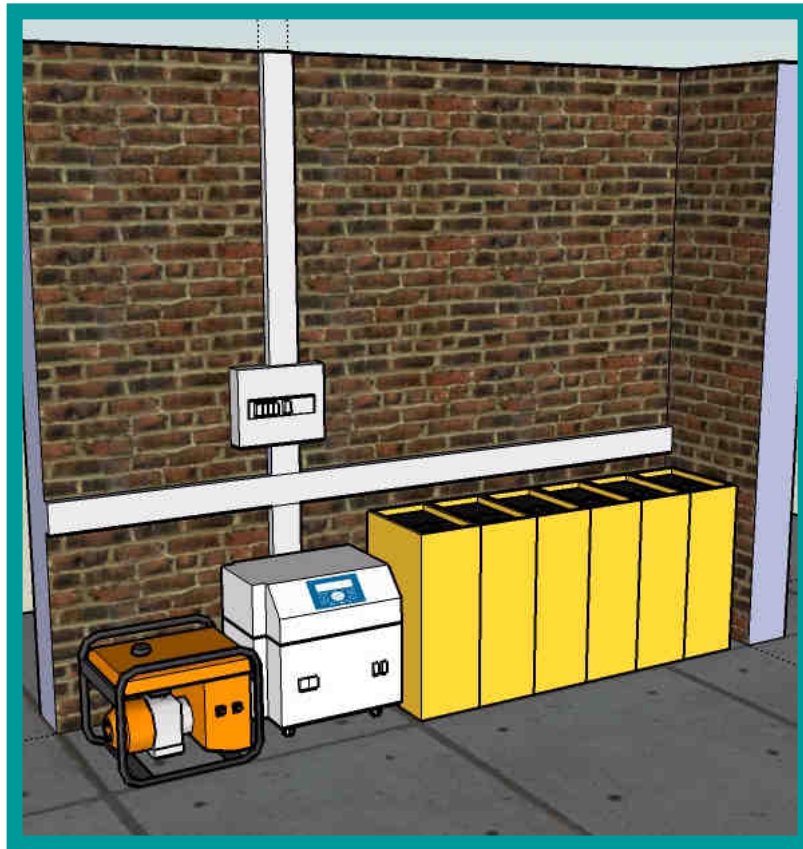
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Typical Installation Setup



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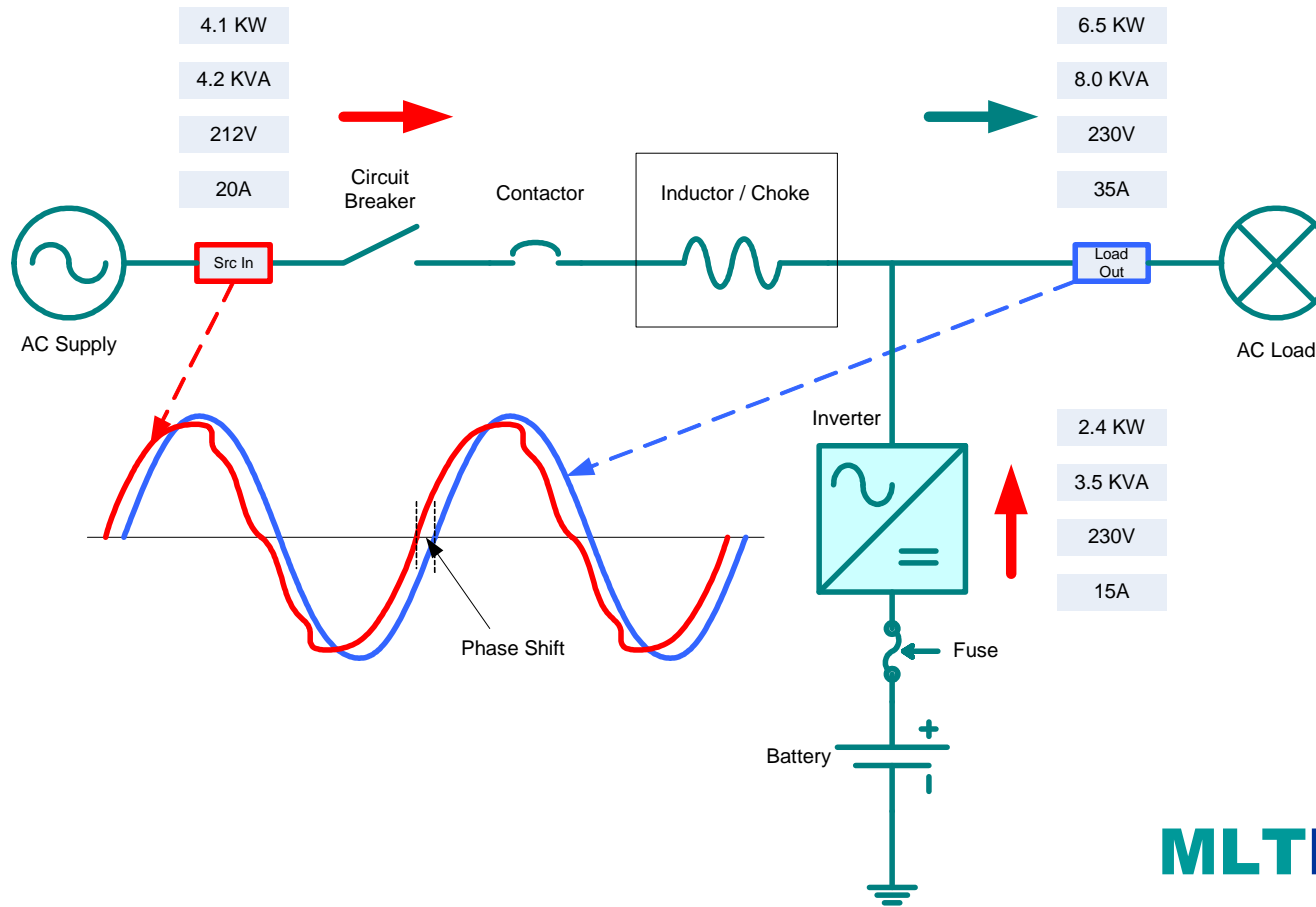
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How it works



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Inductance between AC supply and AC load

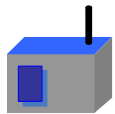
- Voltage Output to the load can be regulated
- Load power factor does not reflect onto the supply
- Power factor on the supply can be optimal (P.F. = 1.0)
- Power flow from the supply can be perfectly controlled to adjustable levels



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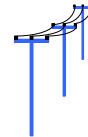
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Configuration Options



OFFGRID

- Stand-Alone or Generator Connected
- Generator unit will start and stop generators automatically*
- Will optimize for minimum generator usage
- Solar/Wind power to substitute power supply



ON GRID

- Grid connected and regulates grid voltage.
- Can export Solar/Wind power
- Control a backup generator for extended backup times

* Generator must have electric start facility



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Expanding into the Future

- Load shaving and power sharing through intelligent central control.
- Users to contribute to local (mini) grid from stored or solar energy



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