

Uninterruptible power supply (UPS) Wrap Around Configuration (AKA Dual Supply)

1. **Normal operation:** The primary power source is fed into the UPS. The rectifier converts waveform to DC to charge the batteries and power the inverter. The inverter then reconstructs a clean, stable AC waveform
i.e. The UPS provides stabilised power from the mains, while also charging the batteries.

2. **Bypassing the UPS:** A second, separate AC source is connected directly to the bypass switch. When the bypass is engaged, this separate AC source isolates the UPS completely, allowing it to be serviced or replaced without the connected **Protected Load/s** being de-energised.

**For concept explanation purposes only,
layout can change depending on the
chosen system/s requirements and or other
site specification/s**

