









# IVOLT v FIXED VOLTAGE OPTIMISERS

iVolt's solid-state voltage optimisers with IRT technology provide unparalleled benefits in terms of adaptability, energy efficiency, and precise voltage regulation. The integrated monitoring enhances their appeal, allowing users to track energy savings, CO<sub>2</sub> reductions and overall performance in near real-time, making them the preferred choice for energy-conscious applications.

## KEY BENEFITS OF IVOLT'S SOLID-STATE VOLTAGE OPTIMISERS WITH IRT TECHNOLOGY

 <p><b>VOLTAGE REGULATION</b> Includes IRT Technology for Advanced Monitoring</p>	<p><b>iVolt Voltage Optimisers</b> ✓</p> <p>Real-time voltage adjustment based on load and supply conditions, with integrated IRT technology for monitoring.</p> <p><b>Fixed Voltage Optimisers</b> ✗</p> <p>Fluctuating voltage level, often set to track the incoming voltage and reduce it by a fixed percentage.</p>	 <p><b>RUNNING COST</b> Cost Effective with Minimal Maintenance</p>	<p><b>iVolt Voltage Optimisers</b> ✓</p> <p>May have a higher upfront cost due to advanced solid-state electronics and IRT technology but typically negligible running costs.</p> <p><b>Fixed Voltage Optimisers</b> ✗</p> <p>Typically, more cost-effective upfront but may result in reduced energy savings leading to increased running cost.</p>
 <p><b>VOLTAGE OPTIMISATION</b> Enhancing Lifespan &amp; Reducing Energy Usage</p>	<p><b>iVolt Voltage Optimisers</b> ✓</p> <p>Offers precise voltage optimisation, cuts energy consumption, extends equipment life, monitors savings and CO<sub>2</sub> reduction in near real-time.</p> <p><b>Fixed Voltage Optimisers</b> ✗</p> <p>May not optimise voltage as effectively, potentially leading to energy inefficiencies and equipment wear.</p>	 <p><b>MINIMAL MAINTENANCE</b> Solid-State Technology with Lowest Upkeep</p>	<p><b>iVolt Voltage Optimisers</b> ✓</p> <p>The robust solid-state technology requires very low maintenance, with even lower upkeep than Fixed VO.</p> <p><b>Fixed Voltage Optimisers</b> ✗</p> <p>Typically, low maintenance as they operate with minor adjustments but not superior to solid-state VO.</p>
 <p><b>ENERGY EFFICIENCY</b> Optimum Efficiency via Over-voltage Reduction</p>	<p><b>iVolt Voltage Optimisers</b> ✓</p> <p>Maximises energy efficiency by reducing over-voltage during periods of low demand, with real-time monitoring of energy savings.</p> <p><b>Fixed Voltage Optimisers</b> ✗</p> <p>May not optimise energy efficiency as effectively, potentially leading to wastage.</p>	 <p><b>CONDITION ADAPTABILITY</b> Not Limited to Fixed Percentage Reduction</p>	<p><b>iVolt Voltage Optimisers</b> ✓</p> <p>Highly adaptable to changing electrical environments and conditions with varying voltage requirements.</p> <p><b>Fixed Voltage Optimisers</b> ✗</p> <p>Lacks adaptability, providing a fixed percentage voltage reduction regardless of conditions. Brown outs will be exacerbated.</p>
 <p><b>APPLICATION FLEXIBILITY</b> Diverse Coverage of Industrial Applications</p>	<p><b>iVolt Voltage Optimisers</b> ✓</p> <p>Ideal for applications with varying voltage requirements, such as industrial facilities, with near real-time monitoring of performance.</p> <p><b>Fixed Voltage Optimisers</b> ✗</p> <p>Limited to applications where the existing supply voltage level is relatively stable and does not suffer from voltage dips.</p>	 <p><b>SYSTEM COMPATIBILITY</b> Works with a Broad Range of Electrical Systems</p>	<p><b>iVolt Voltage Optimisers</b> ✓</p> <p>Compatible with various electrical systems and loads, suitable for diverse applications.</p> <p><b>Fixed Voltage Optimisers</b> ✗</p> <p>Limited compatibility, typically best suited for specific, constant-voltage applications.</p>



iVolt® offer a vast range of product sizes, ranging from 63A to 3,000A and above in both single and three phase, with a number of installations having been completed throughout the commercial, retail, manufacturing, leisure and public sectors.

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The iVolt® was designed in the UK and production takes place at its facility near Heathrow Airport. The company is part of the global Sollatek group and is accredited to ISO9001:2015