<table>
<thead>
<tr>
<th>Voltsure™</th>
<th>Voltright™</th>
<th>Voltsafe™</th>
<th>Voltshield™</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Sollatek UPS Range</td>
<td>The Sollatek Regulator Range</td>
<td>The Sollatek Suppressor Range</td>
<td>The Sollatek Switcher Range</td>
</tr>
<tr>
<td>Keeps equipment operating temporarily in a blackout by using stored battery power</td>
<td>Ensures equipment can still operate although the voltage level is outside the normal range, by automatic correction within set limits</td>
<td>Stops short-term disturbances, created by lightning strikes, power stations or nearby equipment switching on &amp; off, from causing damage</td>
<td>Prevents damage to equipment from over or under voltage levels of long duration. Works by disconnecting power when voltage level exceeds set parameters. Reconnects again when power returns inside parameters for a pre-set period. Fully automatic operation. All switches include other protection features.</td>
</tr>
</tbody>
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**Spikes/Surges**

- Very short, (one millisecond+) essential very high surge in voltage to thousands of volts and amps. Spikes are common in all parts of the world and repeated exposure to voltage level damage electronic equipment and corrupt data.

**What causes it?**

- Switching on/off of nearby equipment, lightning, restore starting etc.

**RFI/Noise (Radio Frequency/Interference)**

- Noise: High frequency disturbances that occur within a short period of time (milliseconds). RFI/RFI are very common in all parts of the world and are the main cause of data corruption.

**What causes it?**

- Generated by high frequency noise from nearby equipment like TV, radio equipment, transmitters, mobile phones, switching off/on of certain loads, fluorescent lights, motor speed controls, light dimmers.

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**Over-Voltage**

- Long duration of low voltage (milliseconds to seconds, minutes, hours or days) rise in the voltage above acceptable limits. Depending on the level of the over-voltage, the damage can be instantaneous, severe and irreparable.

**What causes it?**

- Loss of power supply after power cuts, ordering size of already oscillating between periods of less-voltage and over-voltage or accidental breakdown of the power distribution infrastructure and remote areas. Common in dry seasons where water is used for electricity generation.

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**Brown-Out/Under-Voltage**

- Long duration of low voltage (milliseconds to seconds, minutes, hours or days).

**What causes it?**

- Most commonly an over-structured utility, especially in areas of poor power distribution infrastructure and remote areas. Common in dry seasons where water is used for electricity generation.

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**Lightning**

- Direct or nearby strikes can cause minor problems or severe disturbances and damage. Lightning produces spikes which can cause damage ranging from corruption of data to mechanical failure of equipment is stopped while in operation.

**Power-cuts**

- Common in every country in the world, especially in areas of frequent-voltage problems. Sudden loss of power can cause damage ranging from corruption of data to mechanical failure of equipment. Power-cuts are generated by either a direct hit, or indirectly striking underground or an overhead line and transmitting high surges to connected equipment in nearby buildings.

**Power-Back Surges**

- Typically occur when power returns after a power-cut and connected equipment receives a surge of electricity at an over-voltage level, which can be very damaging (see above).

**What causes it?**

- Power back surges are created by the utility, when it restores supply at an above normal voltage in order to compensate for the demand as connected equipment re-starts simultaneously.