

## immerSUN and Solar iBoost+ compared

| Attribute  | immerSUN | Solar iBoost+ | Comments  |
|--|----------|---------------|---|
| Manufacturer   | 4eco Ltd | Marlec Eng Co | 4eco Ltd have been manufacturing microgeneration power diversion devices since 2012. The award winning <i>immerSUN</i> is the most sophisticated device on the market, is easy to install and is the number one choice for installers   |
| Full EMC & safety testing  | ✓        | ✗             | Test reports for the <i>immerSUN</i> , relating to Safety Testing & EMC testing can be downloaded from the <i>immerSUN</i> website  |
| Installation verification & error detection                        | ✓        | ✗             | Many installation faults are automatically detected by the <i>immerSUN</i> , reducing the need for site revisits. This also means the <i>immerSUN</i> can detect if the immersion heater is not working   |
| Wireless sensor mains powered as standard                          | ✓        | ✗             | The <i>immerSUN</i> 's mains powered wireless sensor ensures 'up to the second' data is transmitted, at no extra cost!<br>The Solar iBoost+'s battery powered sensor transmits data once every 10 seconds.<br>This delayed data can result in power drawn from the grid to satisfy the requirements of the immersion heater |
| Threshold level at which point power is diverted to the load < 30W | ✓        | ✗             | The Solar iBoost+ allows 100W of power to be exported <u>before</u> it starts to divert any surplus power to the load. The <i>immerSUN</i> is therefore more efficient. This is especially important during periods of lower generation   |
| Supports up to three loads   | ✓        | ✗             | The <i>immerSUN</i> can sequentially control up to 3 separate resistive loads. The iBoost+ supports only two  |
| Short-circuit protection   | ✓        | ✗             | The <i>immerSUN</i> has guaranteed integral short-circuit protection in case of immersion heater failure<br>The Solar iBoost+ has no internal fuse this means it offers no protection against surges, short circuits etc.   |
| Data monitoring available  | ✓        | ✗             | <i>myimmerSUN</i> remote monitoring enables homeowners to monitor all aspects of their household power distribution in real time; import/export, generation, power diverted, and household consumption.   |
| Multifunction relay  | ✓        | ✗             | The <i>immerSUN</i> has a multifunctional relay can be used for many purposes;<br>• Export threshold control for switching on/off other appliances • Pump operation • Boiler control • Fault signal   |
| Multiple units can be linked                                       | ✓        | ✗             | Up to 5 <i>immerSUN</i> devices can be wirelessly linked, enabling 15kW of surplus power to be self-consumed on each phase.<br>The Solar iBoost+ does not have this capability, so can only manage up to 3kW of surplus power.  |
| <i>trusine</i> technology  | ✓        | ✗             | The <i>immerSUN</i> 's <i>trusine</i> power control technology, gives fast smooth automatic power adjustment, it will not cause interference with other appliances or affect the operation of inverters   |
| Advanced installations supported                                   | ✓        | ✗             | The <i>immerSUN</i> has additional features to support more advanced installations such as;<br>• Immersion control with heat pumps • Electric under-floor heating systems • Multi-tariff metering (e.g. economy 7)  |
| Financial savings displayed  | ✓        | ✗             | The tariff applicable to the fuel normally used to heat your hot water can be set when installing the <i>immerSUN</i> . This information is displayed as 'savings made' on the LCD screen in £ and kW   |