

## immerSUN and Power Reducer compared

| Attribute                                   | immerSUN | Power Reducer | Comments   |
|---|----------|---------------|--|
| Manufacturer                                | 4eco Ltd | 4-noks        |  |
| Made in the UK                              | ✓        | ✗             | The power reducer is made in Italy<br>The immerSUN is manufactured in the UK and is supported by a UK based technical support team   |
| Short-circuit protection                    | ✓        | ✗             | The immerSUN has guaranteed integral short-circuit protection in case of immersion heater failure<br>The Power Reducer has an internal fuse which would be ineffective at protecting the unit from damage          |
| Installation verification & error detection | ✓        | ✗             | Many installation faults are automatically detected by the immerSUN, reducing the need for site revisits   |
| Graphical backlit LCD display               | ✓        | ✗             | The immerSUN enables the end user to view the following;<br>• Grid import/export in kW • Diverted energy in kW • Savings £ & kWh   |
| Multifunction relay                         | ✓        | ✗             | The immerSUN 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                       |
| Supports multiple loads                     | ✓        | ✗             | The immerSUN can sequentially control up to 3 separate resistive loads   |
| Lightweight and compact                     | ✓        | ✗             | The Power Reducer is 309mm x 277 mm and 3.9kg<br>The immerSUN is only 235mm x 152mm and weighs 1.75kg, making it easier to install as it is lighter and requires less mounting space                               |
| Bi-directional sensor                       | ✓        | ✗             | The CT of Power Reducer needs to be installed in the correct orientation<br>The immerSUN's CT can be attached without worrying about which way it is facing making it easier to install                            |
| Programmable boost timer                    | ✓        | ✗             | The immerSUN has a built-in seven-day programmable boost timer function as well as a manual boost option<br>Only manual boost is supported by the Power Reducer  |
| Multiple units can be linked                | ✓        | ✗             | Up to 5 immerSUNs can be wirelessly linked, enabling 15kW of surplus power to be self-consumed on each phase<br>The Power Reducer does not have this capability so only can only manage up to 3kW of surplus power |
| Wireless sensor option                      | ✓        | ✗             | An optional wireless sensor is available for the immerSUN, allowing the unit to be installed next to the load when there is no dedicated supply from the distribution board  |
| <b>trusine</b> technology                   | ✓        | ✗             | The immerSUN's <b>trusine</b> 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 immerSUN has additional features to support more advanced installations such as;<br>• Immersion control with heat pumps • Electric underfloor heating systems • Multi-tariff metering (e.g. economy 7)         |