



CONNECTING WITH THE NATIONAL GRID & COMPLYING WITH NEW REGULATIONS.

The **DSEP100** is a Mains Decoupling Relay used for protecting independent power applications that are connected to the mains/grid supply. This could be a range of applications that generate power in parallel with the grid e.g. generators that are inverter connected (including renewables) and all types of synchronous and asynchronous generators.

The **DSEP100** Mains Decoupling Relay works by reliably detecting mains/grid failures and disconnects the equipment from the mains supply in line with relevant country/DNO requirements. The benefit of using a powerful, independent decoupling relay such as the **DSEP100**, even where inverters are fitted, is to provide a more sophisticated level of protection - the engineering framework dictates the limits/parameters for under & over voltage, under & over frequency, vector-shift and ROCOF .

Designed to comply with a number of current world standards including G59/3, G83/3, C10/11 & CEO10-21, the DSE P100 has been intelligently engineered and already meets the forthcoming grid code and relevant RfG changes, which are looming imminently on the horizon. The **DSEP100** offers comprehensive in-field upgradeability, allowing for any possible further changes and future proofing the **DSEP100** for many years to come. This means that all pre-existing applications need suffer no disruption, if further changes are required, by having units

removed and replaced as they no longer meet new standards - it simply requires an authorised engineer on site to make the changes.

The **DSEP100** has many built-in sophisticated features including:

- Multi-stage under and over voltage protection
- 2-stage under and over frequency protection
- Vector shift protection
- R.O.C.O.F. protection
- Lockable security tab to prevent unauthorised configuration changes
- Zero Sequence, Voltage (Neutral Voltage Displacement) Protection to protect against Earth faults
- Positive Sequence Voltage, Negative Sequence Voltage and Voltage Asymmetry protections

The **DSEP100** is ideal for a wide range of paralleling applications having all the required features to meet existing and future grid codes, but also includes some very sophisticated additional features that make this product an attractive all-round solution e.g. Peak Lopping; Fixed Export; Short Term Operating Reserve; No Break, Seamless or Closed Transition; Commercial and Domestic Local Power Generation.

- **Field upgradable**
- **G59/3, G83/3, C10/11 & CEO10-21 compliant**
- **Compliant with future RfG and grid code changes**

For further information, please visit the DSE website: www.deepseapl.com/P100

DSEP100 Mains Decoupling Relay

