

SolShare design checklist

Allume offers bespoke online training modules for system designs. If you are not yet certified and are wanting to design a SolShare PV system, please contact uk.info@allumeenergy.com

SolShare Design Checklist

This checklist is for designers and provides key considerations for designing PV systems with a SolShare. It's not a substitute for the full **Allume Design & Installation Guide**.

This checklist may not cover every aspect of your design, as individual projects may require additional considerations. If you have further questions about SolShare, contact uk.info@allumeenergy.com.

Further technical information about SolShare and how it is installed can be found in the [Allume Resource Library](#).

Key Design Considerations

- ☐ **Regulations:** Ensure your design complies with all relevant standards.
- ☐ **Inverter:** Each SolShare is connected to one dedicated 3-phase inverter with a max output of 35A per phase. *Typically, this is 20kW inverter or less.*
- ☐ **Number of Connections:** A single SolShare can connect to a max of 15 single-phase connections. A maximum of 5 on L1; 5 on L2; and 5 on L3.
- ☐ **Phase Connections:** Each SolShare must have at least one connection on each of its three phases.
- ☐ **Neutral & Earth:** The SolShare's neutral and earth connections must come directly from the Main Switchboard (MSDB) or DNO cutout.
- ☐ **Flat Wiring:** A single live cable is run from SolShare to each flat. There is no neutral connection per flat. Ferrous armoured cable (e.g. SWA) **not** suitable
- ☐ **AC Cables:** SolShare AC cables must be rated to carry the full capacity of a single inverter phase. *SolShare can provide total phase generation from the inverter to a single output.*
- ☐ **SolShare Isolation:** Each SolShare has a lockable maintenance isolation enclosure with an MCB for each flat connected to that SolShare. This must be in close proximity to the SolShare.
- ☐ **DNO Incomer:** A single SolShare can only connect to flats supplied by the same DNO incomer.
- ☐ **Current Transformers:** Connect the SolShare's CT on the live meter tail before the solar point of connection.
- ☐ **kWp Allocation:** Confirm the allocated kWp is possible with the overall system size. You can use this tool to help design/confirm the kWp allocation.

Additional Considerations (Where Applicable)

- ☐ **Battery CTs:** Position battery CTs to effectively measure the total load of all connected units.

- ❑ **Grid Devices:** Install CTs for any grid-measuring devices (e.g., PV diverters) per the manufacturer's instructions. Ensure that they are measuring grid and not solar. See [*Design & Install Guide*](#) for more information.
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Installation Considerations

- ❑ **Clearances:** Provide clearances of at least 300mm above and 150mm below and on each side of the SolShare.
- ❑ **Wi-Fi:** Ensure a strong, stable 2.4GHz Wi-Fi network is available for each SolShare. A 4G router with a data SIM can be used.
- ❑ **Cabling:** Use suitable glands at all cable entries to maintain an IP-56 rating.