

# How to apply for UK DNO Connection

## Version B1

### DOCUMENT INTRODUCTION

This document is intended to provide guidance on how to apply for connection of a rooftop PV installation with a SolShare on District Network Operators (DNOs) in Great Britain. It should be read in conjunction with applicable referenced documents. This document does not override official guidance from DNOS.

It is the responsibility of the solar design engineer to ensure the shared solar installation solar installation adheres to the design rules detailed in 0414\_G1\_Allume\_SolShare\_Design & Installation Guide\_UK, local DNO requirements, BS 7671, and MCS.

If you have any questions regarding the contents of this document, please do not hesitate to contact Allume Energy at:

- Tel: +44 20 8156 0131
- Email: [info@allumeenergy.com](mailto:info@allumeenergy.com)

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## A. DNO REQUIREMENTS

You will need to submit a G99 application for pre-approval for connection. The G99 form is unchanged, although there is some additional information required to be added. As with a typical G99 application, allocate up to 6 weeks for connection approval.

The examples provided here are given based on ENA forms. DNOs may have their own forms; refer to the DNO's websites and online application tools.

## B. APPLICATION PROCES

1. Gather the additional information required for a G99 Application including SolShare
  - a. MPANs for each flat connected to each SolShare
  - b. Confirm the size of the J type fuses in the DNO heavy duty cut out. If they are:
    - i. 250A or over, no action to be taken
    - ii. if they are <200A, please inform Allume Energy prior to commissioning the system.

These will be added to the "Notes" section of the G99 application.

2. Gather all other standard information
  - a. Note that the Landlord MPAN may not be required as there may not be a landlord connection.
3. Fill out the G99 as shown on the sample as shown on in Appendix A on Allume Document "0599\_A2\_Allume\_SolShare\_Example G99\_UK"
4. Create an overview SLD for the system as show in Appendix B. This is available separately as Allume Document "0592\_B3\_Allume\_SolShare\_Simplified SLD for G99&Site Pack\_Example"
5. Submit the G99 and SLD through the standard DNO process.
6. Please contact Allume if you have any issues during the application process.

## C. APPENDICES

### Appendix A: Sample G99 application

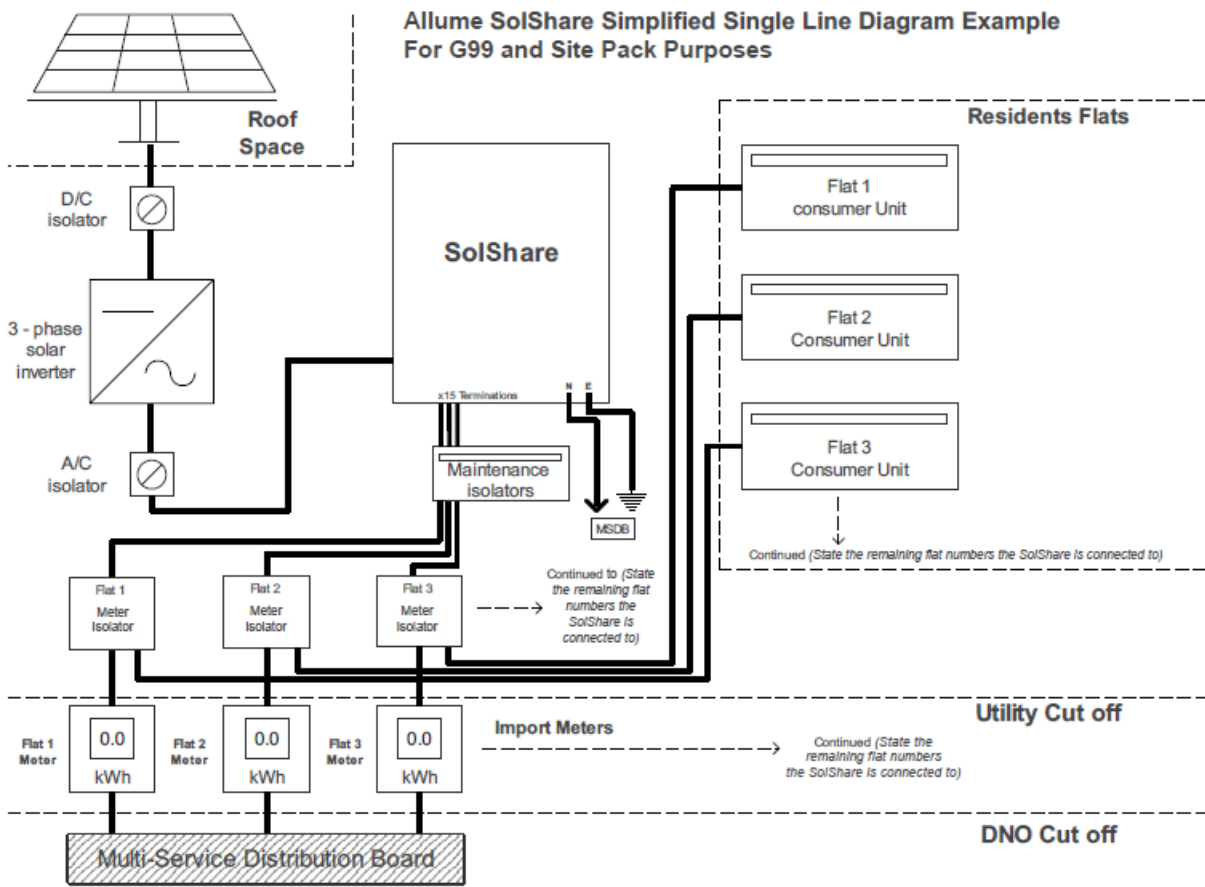
#### A.1 CONNECTION APPLICATION FORMS FOR TYPE A POWER GENERATING FACILITY (< 50 kW) (FORM A1-1) AND INTEGRATED MICRO GENERATION AND STORAGE (FORM A1-2)

<b>Form A1-1 : Application for connection of Power Generating Module(s) with Total Aggregate Capacity &lt;50 kW 3-phase or 17 kW single phase</b>	
<p>For <b>Power Generating Modules</b> with an aggregate capacity &lt; 50 kW 3-phase or 17 kW single-phase, this simplified application form can be used. For <b>Power Generating Modules</b> with an aggregate capacity &gt; 50 kW 3-phase, the connection application should be made using the Standard Application Form (generally available from the <b>DNO</b> website).</p> <p>If the <b>Power Generating Module</b> is <b>Fully Type Tested</b> and registered in the ENA Type Test Verification Report Register, this application form should include the <b>Manufacturer's</b> reference number (the system reference).</p> <p>If part of the <b>Power Generating Module</b> is <b>Type Tested</b> and registered with the ENA Type Test Verification Report Register, this application form should include the <b>Manufacturer's</b> reference number (the system reference) and Form A2-1 or A2-2 or A2-3 (as appropriate) should be submitted to the <b>DNO</b> with this form.</p> <p>If the <b>Power Generating Module</b> is neither <b>Fully Type Tested</b> or <b>Type Tested</b> then and Form A2-1 or A2-2 or A2-3 should be submitted to the <b>DNO</b> with this form. Alternatively the Standard Application Form should be submitted instead of this form.</p>	
To	<p>ABC electricity distribution <span style="float: right;"><b>DNO</b></span>            99 West St, Imaginary Town, ZZ99 9AA <span style="float: right;">abcd@wxyz.com</span></p>
<b>Generator Details:</b>	
<b>Generator</b> (name)	Enter Housing Association or System Owner details
Address	
Post Code	
Contact person (if different from <b>Generator</b> )	
Telephone number	
E-mail address	
MPAN(s)	
<b>Installer Details:</b>	
<b>Installer</b>	Enter Installer details
Accreditation / Qualification	
Address	

Post Code							
Contact person							
Telephone Number							
E-mail address							
<b>Installation details:</b>							
Address		Enter site address					
Post Code							
MPAN(s)		See notes					
<b>Details of Existing PGMs – where applicable:</b>							
Manufacturer	Approximate Date of Installation	Energy source and energy conversion technology (enter codes from tables 1 and 2 below Form A1-2)	Manufacturer's Ref No. where available	PGM Registered Capacity (kW)			Energy storage capacity for <b>Electricity Storage</b> devices (kWh)
				3-phase units	Single Phase Units		
					PH1	PH2	
<b>Details of Proposed Additional Generating Unit(s):</b>							
Manufacturer	Approximate Date of Installation	Energy source and energy conversion technology (enter codes from tables 1 and 2 below Form A1-2)	Manufacturer's Ref No. where available	Generating Unit Capacity (kW)*			Energy storage capacity for <b>Electricity Storage</b> devices (kWh)
				3-phase units	Single Phase Units		
					PH1	PH2	
Enter inverter details as usual							

<p>* Use continuation sheet where required.</p> <p>Record <b>Power Generating Module Registered Capacity</b> kW at 230 AC, to one decimal place, under PH1 for single phase supplies and under the relevant phase for two and three phase supplies.  Detail on a separate sheet if there are any proposals to limit export to a lower figure than the aggregate <b>Registered Capacity</b> of all the <b>Power Generating Modules</b> in the <b>Power Generating Facility</b>.</p>								
<p><b>Balance of Multiple Single Phase Generating Units – where applicable</b></p>								
<p>I confirm that design of the <b>Generator’s Installation</b> has been carried out to limit output power imbalance to below 16A/phase, as required by EREC G99.</p>								
Signed :					Date :			
<p>J-Type Fuse Size</p> <p>Number of Connections Per Phase per SolShare</p> <p>This System uses <b>enter number of</b> Allume Energy SolShare(s) to connect the above power generating modules to the network via the following <b>enter number of</b> MPANs:</p> <p><b>Flat number – MPAN</b></p> <p><b>Flat number – MPAN</b></p> <p><b>Flat number – MPAN</b></p> <p><b>Etc...</b></p>								

## Appendix B: Example SLD



To be clearly shown:

- Inverters.
- Points of isolation (i.e. for operational purposes).
- SolShare Units.
- Metering.
- Cut-outs and multi-service distribution boards (MSDBs).
- An example flat connection and how many additional flats are connected via the same method and to the same MSDB.
- Location of items and ownership boundaries.

## D. CONTACT

- Tel: +44 20 8156 0131
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