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| **Form B2-1 Power Generating Module Document for Type B Power Generating Modules**  **Compliance Statement**  This document shall be completed by the **Generator** | | |
| **Power Generating Module (PGM)**  **PGM Name:**  **Compliance Contact** (name/tel/email)**:** | **Distribution Network Operator (DNO)**:  **DNO Name**: ABC electricity distribution  **Compliance Contact** (name/tel/email): | |
| **Key to Submission Stage**  **A – Application:** Submission of the Standard Application Form.  **IS – Initial Submission:** The programme of initial compliance document submission to be agreed between the **Generator** and the **DNO** as soon as possible after acceptance of a Connection Offer. Initial Submission of this **Power Generating Module Document** to be completed at least 28 days before the **Generator** wishes to synchronise its **Power Generating Module** for the first time.  **FONS – Final Operational Notification Submission:** The **Generator** shall submit post energisation verification test documents to obtain **Final Operational Notification** from the **DNO**. | | |
| **Key to evidence requested**  S - Indicates that **DNO** would expect to see the results of a simulation study  P - **Generating Unit** or **Power Generating Module** design data  MI - **Manufacturers’ Information**, generic data or test results as appropriate  D - Copies of correspondence or other documents confirming that a requirement has been met  T - Indicates that the **DNO** would expect to see results of, and/or witness, tests or monitoring which demonstrates compliance  TV - Indicates Type Test reports (if **Generator** pursues this compliance option) | | **Key to Compliance**  Y = Yes (Compliant),  O = Outstanding (outstanding submission)  UR= Unresolved issue  N = No (Non-Compliant) |

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| Note that second part of this form is split into two Parts, the Part 1 is applicable to **Synchronous Power Generating Modules**, Part 2 is applicable to **Power Park Modules** | | | | |
| Issue | Date of Issue | Compliance Declaration Signatory Name | Compliance Declaration Signature | Issue Notes |
| Issue # | DD/MM/YY |  | I declare that the details provided in this issue of this **Power Generating Module Document** comply with the requirements of G99 | Insert brief description of amendment |
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| Final Issue Prior to **FON** |  |  |  |  |
| **Details of Power Generating Module** | | | | |
| Connection Voltage | |  | | |
| **Registered Capacity** | |  | | |
| **Manufacturer** / Reference | |  | | |
| Technology Type | |  | | |

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| **Form B2-1 Part 1 - Compliance Requirements for Synchronous Power Generating Modules** | | | | **Response** | |
| **G99 Reference** | **Compliance Requirement of the Power Generating Module** | **Submission Stage** | **Evidence Requested (and / or)** | **Compliance**  **Y, O, UR, N** | **Generator’s Statement**  *(Provide document references with any additional comments)* |
| 17.2.1, 17.2.3, 17.4.1 | Confirmation that a completed Standard Application Form has been submitted to the **DNO** | A, IS, FONS | P, MI, D |  |  |
| 9.4.3 | **Power Quality – Voltage fluctuations and Flicker**:  The installation must be designed in accordance with EREC P28 | IS | MI, D, TV |  |  |
| 9.4.2 | **Power Quality – Harmonics**:  The installation must be designed in accordance with EREC G5 | IS | MI, D, TV |  |  |
| 12.5 | **Reactive Power capability** Confirm compliance with Section 12.5 by carrying out simulation study in accordance with B.4.2 and by submission of a report | IS | S, MI, TV |  |  |

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| 12.4 | **Voltage Control and Reactive Power Stability** Confirm compliance with Section 12.4 by carrying out simulation study in accordance with B.4.3 and by submission of a report | IS | S, MI, TV |  |  |
| 12.2 | Confirm that the plant and apparatus is able of continue to operate during frequency ranges specified in 12.2 | IS | MI, TV |  |  |
| 12.2.5 | **Limited Frequency Sensitive Mode – Over frequency** Confirm the compliance with 12.2.4 by carrying out simulation study in accordance with B.4.5 and by submission of a report | IS | S, TV |  |  |
| 12.1.3 | Confirm the **Active Power** set point can be adjusted in accordance with instructions issued by the **DNO** | IS | MI, TV |  |  |
| 12.3 | **Fault Ride Through** Confirm the compliance with 12.3 by carrying out simulation study in accordance with B.4.4 and by submission of a report | IS | MI, TV, S |  |  |
| Section 10 and Form B2-2 | **Interface Protection:**   * Over and under voltage protection * Over and Under Frequency protection * Loss of mains protection   Other protection:   * Details of any special protection, eg Pole Slipping or islanding   As an alternative to demonstrating protection compliance with Section 10 using **Manufacturers’ Information** or type test reports, site tests can be undertaken at the time of commissioning the **Power Generating Module** | IS, FONS | MI, TV, T |  |  |
| 12.4 | **Excitation System Open Circuit Step Response Tests** Confirm the performance requirements of a continuously acting voltage control system by testing in accordance with B6.2 | FONS | T, MI, TV |  |  |
| 12.4 | **Open & Short Circuit Saturation Characteristics** Confirm the performance requirements of a continuously acting voltage control system by testing in accordance with B.5.3 | FONS | T, MI, TV |  |  |

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| 12.4.3 | **Excitation System On-Load Tests** Confirm the operation of the **Excitation System** on load is compliant with paragraph 12.4.3 by testing in accordance with B.5.4 | FONS | T, MI, TV |  |  |
| 12.5 | **Reactive Capability Test** Confirm the **Reactive Power** capability of the **Synchronous Power Generating Module** to meet the requirements of Section 12.5 by testing in accordance with B.5.5 | FONS | T, MI, TV |  |  |
| 12.2 | **Frequency Response Tests**  Confirm the **Synchronous Power Generating Module** meets the requirements of 12.2 by testing in accordance with B.5.6 | FONS | T, MI, TV |  |  |
| 12.2.4 | **Output Power with falling frequency** Confirm the **Synchronous Power Generating Module** meets the requirements of 12.2.3 by testing in accordance with B.5.7 | FONS | T, MI, TV |  |  |

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| 10.3.4 | **Automatic reconnection** Confirm by testing that the reconnection sequence starts after a minimum delay of 20 s for restoration of voltage and frequency in accordance with paragraph 10.3.3 | FONS | T, MI, TV |  |  |
| B3 | Installation and Commissioning Form B3 completed with signed acceptance from the **DNO** representative | FONS | D |  |  |

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| **Form B2-1 Part 2 - Compliance Requirements for Power Park Module** | | | | **Response** | |
| **G99 Reference** | **Compliance Requirement of the Power Generating Module** | **Submission Stage** | **Evidence Requested (and / or)** | **Compliance**  **Y, O, UR, N,** | **Generator’s Statement**  *(Provide document references with any additional comments)* |
| 17.2.1, 17.2.3, 17.4.1 | Confirmation that a completed Standard Application Form has been submitted to the **DNO** | A, IS, FONS | P, MI, D |  |  |
| 9.4.3 | **Power Quality – Voltage fluctuations and Flicker**:  The installation must be designed in accordance with EREC P28. | IS | MI, D, TV |  |  |
| 9.4.2 | **Power Quality – Harmonics**:  The installation must be designed in accordance with EREC G5 | IS | MI, D, TV |  |  |
| 12.5 | **Reactive Power capability** Confirm compliance with Section 12.5 by carrying out simulation study in accordance with B.4.2 and by submission of a report | IS | S, MI, TV |  |  |

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| 12.4 | **Voltage Control and Reactive Power Stability** Confirm compliance with Section 12.4 by carrying out simulation study in accordance with B.4.3 and by submission of a report | IS | S, MI, TV |  |  |
| 13.2.1 | **Limited Frequency Sensitive Mode – Over frequency** Confirm the compliance with 13.2.1 by carrying out simulation study in accordance with C.7.6 and by submission of a report | IS | S, MI, TV |  |  |
| 12.2 | Confirm that the plant and apparatus is able of continue to operate during frequency ranges specified in 12.2 | IS | MI, TV |  |  |
| 12.2.5 | **Limited Frequency Sensitive Mode – Under frequency** Confirm the compliance with 12.2.4 by carrying out simulation study in accordance with B.4.5 and by submission of a report | IS | S, MI, TV |  |  |
| 12.1.3 | Confirm the **Active Power** set point can be adjusted in accordance with instructions issued by the **DNO** | IS | MI, TV |  |  |

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| 12.3 and 12.6 | **Fault Ride Through and Fast Fault Current Injection** Confirm the compliance with 12.3 and 12.6 by carrying out simulation study in accordance with B.4.4 and by submission of a report. | IS | MI, TV, S |  |  |
| Section 10 and Form B2-2 | **Interface Protection:**   * Over and under voltage protection * Over and Under Frequency protection * Loss of mains protection   Other protection:   * Details of any special protection, eg Pole Slipping or islanding   As an alternative to demonstrating protection compliance with Section 10 using **Manufacturers’ Information** or type test reports, site tests can be undertaken at the time of commissioning the **Power Generating Module** | IS, FONS | MI, TV, T |  |  |
| 12.4 | **Voltage Control Test** Confirm the performance requirements of a continuously acting voltage control system by testing in accordance with B.6.4 | FONS | T, MI, TV |  |  |

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| 12.5 | **Reactive Capability Test** Confirm the **Reactive Power** capability of the **Power Park Module** meet the requirements of Section 12.5 by testing in accordance with B.6.3 | FONS | T, MI, TV |  |  |
| 12.2 | **Frequency Response Test**  Confirm the **Power Park Module** meets the requirements of 12.2 by testing in accordance with B.6.5 | FONS | T, MI, TV |  |  |
| 10.3.4 | **Automatic reconnection** Confirm by testing that the reconnection sequence starts after a minimum delay of 20 s for restoration of voltage and frequency in accordance with paragraph 10.3.3 | FONS | T, MI, TV |  |  |
| B.3 | Installation and Commissioning Form B3 completed with signed acceptance from the **DNO** representative | FONS | D |  |  |