



# Product application checklist

Please complete in BLOCK CAPITALS

| •       | miterraptible i otter bappines   |
|---------|--|
| Manufa  | octurer/supplier name:   |
| Applica | nt's name:   |
| Telepho | one number:  |
| Produc  | t information  |
| Product | t name:  |
| Model   | number:  |
|         |  |
|         | complete each section of this form based on your product's characteristics. Incomplete or incorrect data could affect the processing product application.  |
|         | oduct application should be made on a separate form unless a product's design characteristics are common to all the products. In cance a single application can be made for multiple products.                                     |
| 1.      | Product testing and certification No Yes   |
|         | e type testing has been applied to demonstrate product performance ensure that the information supplied is sufficient to nstrate the performance of all the products for which applications are being made.                        |
| 1.1     | Is the product CE Marked?  |
| 1.2     | Has your product been performance tested in accordance with Section 6.4.1.6 and Annex J -3:2011 of BS  |
|         | EN 62040 (or IEC 62040-3:2011)?  |
| 1.3     | How was the product(s) performance tested? (Please select one).  |
|         | a) Tested in the manufacturer's in-house laboratory, in accordance with a registered Quality Management System (i.e. 'self-tested')  |
|         | <ul> <li>Tested in a laboratory either in house or on-site, witnessed by an independent body<br/>(i.e. 'witnessed testing')</li> </ul>   |
|         | c) Tested by an independent laboratory (i.e. 'independent testing')  |
|         | d) Representative models used  |
|         | Please refer to Section 2 of ECA Guidance Note 5 "ECA Testing Programme: Energy Technology List (ETL) Product Testing Framework" for details of the requirements that must be satisfied for each of these product testing options. |
| 1.4     | Where product testing has been done in accordance with a registered Quality Management System, what is its registration number?  |
|         |  |

Where product testing has been witnessed by an independent body, what was the name of the witness?

1.5

(Please include contact details).

| 1.  | Product testing and certification (continued)  | No       | Yes |
|-----|--|----------|-----|
| 1.6 | Where products have been tested by an independent laboratory:  |          |     |
|     | a) What is the name of the independent laboratory?   |          |     |
|     | b) What is the laboratory's registration number (where accredited)?  |          |     |
| 1.7 | If representative testing has been used, what are the "representative models"?   |          |     |
|     | ETL Product ID number Product name and model number  |          |     |
|     |  |          |     |
|     |  |          |     |
|     |  |          |     |
|     |  |          |     |
|     |  |          |     |
|     |  |          |     |
|     | The representative models must be selected by dividing the range of products into groups of models with similar characteristics, and testing a model in the lowest quartile of predicted performance in each group. The performance model in the group must be predicted using a validated mathematical model. As a minimum, at least two models | nce of e |     |
|     | tested in each range of products.  | must b   | C   |

## 2. Product type No Yes

- 2.1 What category of product are you applying for? (tick one)
  - a) Static (installed) uninterruptible power supply units or packages as defined in BS EN 62040-3:2011 (or IEC 62040-3:2011) with a power range greater than or equal to 10kVA that use one or more electronic power converters, switches and energy storage devices (such as batteries) to generate their output voltage when operating without mains input power.
  - b) Rotary uninterruptible power supply units or packages as defined in BS EN 88528-11:2004 (or IEC 88528-11:2004) with a power range greater than or equal to 200 kVA that use one or more rotating electrical machines (i.e. a.c. generators) to generate their output voltage when operating without mains input power.

## 3. Product features and functionality (all product categories) N/A No Yes

- 3.1 Does the product include the following components (within the unit or package) (tick all that apply)?
  - a) An electronic control system that controls the operation of the product.
  - b) Voltage inverter and rectifier devices (required for static uninterruptible power supplies, optional for rotary uninterruptible power supplies).
  - c) One or more energy storage devices (for example: batteries, flywheels, etc) specified for use with the UPS.
  - d) One or more power supply filters.
  - e) A bypass switch.
  - f) A motor generator set or alternator (for rotary uninterruptible power supplies only).

| 3.  | Product features and functionality (continued)   | N/A | No | Yes |
|-----|--|-----|----|-----|
| 3.2 | Is the product designed to be connected to, and to provide electrical power backup to, a three-phase electricity supply of nominally fixed frequency and voltage?  |     |    |     |
| 3.3 | Does it have an input total harmonic distortion (THD) at 100% of rated maximum power output that is less than or equal to 5%?  |     |    |     |
| 3.4 | For static UPS products with more than one operating mode: does the product incorporate a high efficiency operating mode and include controls to switch between modes quickly and automatically when the utility supply falls below acceptable tolerances? |     |    |     |
| 3.5 | For modular products: are controls incorporated to operate automatically at higher load per module, provided this demonstrably improves efficiency?  |     |    |     |

| 4.  | Product Performance: Static uninterruptible power sup (>= 10kVA)   | oly units or packages No | Yes |
|-----|--|--------------------------|-----|
| 4.1 | Does the product's efficiency meet or exceed the following values: |                          |     |
|     | a) >= 94.0% at 25% of full rated load?                             |                          |     |
|     | b) >= 95.5% at 50% of full rated load?                             |                          |     |
|     | c) >= 95.5% at 75% of full rated load?                             |                          |     |
|     | d) >= 95.5% at 100% of full rated load?                            |                          |     |

| 5.  | Product Performance: Rotary uninterruptible power supply units or packages Power range (>= 200kVA) | No | Yes |
|-----|--|----|-----|
| 5.1 | Does the product's efficiency meet or exceed the following values?                                 |    |     |
|     | a) >= 91.0% at 25% of full rated load?   |    |     |
|     | b) >= 95.5% at 50% of full rated load?   |    |     |
|     | c) >= 95.5% at 75% of full rated load?   |    |     |
|     | d) >= 96.0% at 100% of full rated load?  |    |     |

| 6.  | Product Performance: All Products   | No | Yes |
|-----|---|----|-----|
| 6.1 | During efficiency testing, did the product's power factor efficiency meet or exceed the following values at nominal input voltage:  a) >= 0.93 at 25% of full rated load?  b) >= 0.93 at 50% of full rated load?  c) >= 0.93 at 75% of full rated load?  d) >= 0.93 at 100% of full rated load? |    |     |
| 6.2 | Which of the following modes was the product operating in during efficiency testing? (Select one)   |    |     |
|     | a) VFD  |    |     |
|     | b) VI   |    |     |
|     | c) VFI  |    |     |
|     | d) Other (please specify)   |    |     |
|     | Please note that these operating modes are as defined in Section 5.3.4 of IEC 62040-3: 2011.  |    |     |

## 7. Summary of documents to be included

No

Yes

Please send ONE copy of each of the following documents:

If the relevant information in support of the questions above is contained within a larger document, please indicate the location of the relevant information. Note that all documentation submitted must directly refer to the model numbers for which you are making this application. Documentation should be added to your online application at https://www.gov.uk/energy-technology-list.

- a. A technical sales brochure or leaflet for the product clearly summarising:
  - i) The key features of the product (ideally including photographs of the product's exterior).
  - ii) The product's operation (i.e. in-built functionality) and intended applications (i.e. usage).
  - iii) Any product selection options (including optional extras, alternative configurations etc.).

This documentation should contain sufficient detail to enable the assessor to confirm that the proposed entry on the Energy Technology Product List (ETPL) is correct, and uniquely represents a single product of fixed design (as defined by the rules of the ECA Scheme). If the model names contain any 'wildcards' in respect of cosmetic variations please check with ECA Questions that this is permitted before submitting your application.

- b. A technical specification for the product, including:
  - i) Details of the model numbers covered (including individual features of each model).
  - ii) The product's design ratings (electrical, mechanical, thermal, flow rates, energy use etc.)
  - iii) A description of how to install the product including connection/wiring diagrams. Where the product must be assembled, configured and/or commissioned on site before use, please include instructions.

This documentation should contain sufficient detail to enable the assessor to confirm that each product entry on the Energy Technology Product List (ETPL) has the design features specified in the eligibility criteria for that category of product. Please indicate on the checklist where information on specific design features is located in the documentation.

- c. Evidence that the product meets the performance criteria, including:
  - i) Test reports showing product performance at the standard rating/test conditions.
  - ii) Details of the test procedures/standards used to determine product performance.
  - iii) A declaration certifying the accuracy of the test reports and confirming that:
    - The test facilities used comply with the minimum specifications outlined in the test standard, and the required test conditions where applied during testing.
    - All measurement equipment used in testing was calibrated by an accredited laboratory, or its
      calibration is otherwise traceable back to national standards.
    - Appropriate quality assurance procedures have been used to verify or cross-check the accuracy and repeatability of the test procedures and test results.
  - iv) Where representative testing has been used, please include evidence that all products covered by the representative model(s) are constructed out of identical power supply modules.

Please note that summary test reports will only be accepted, where the accuracy of the test reports has been certified by a recognised independent body, or where two detailed test reports have been submitted per product range.

Please refer to ECA Guidance Note 5 "ECA Testing Programme: Energy Technology List (ETL) Product Testing Framework" for further guidance on the submission of test results, and minimum information requirements.

- d. A Declaration of Conformity with EU Directives on product safety, including:
  - i) CE Marking Directives
- e. Evidence that a quality assurance system/procedures is/are in place to:
  - i) Control the specification, design, manufacturing and testing of the products
- f. Signed application checklist.

Please note that all product documentation provided must be written in, or translated into, English.

#### 8. Declaration

I confirm that the information given above is correct to the best of my knowledge and that I have read and agree to the terms and conditions governing the management of the Enhanced Capital Allowance Energy Technology List (ETL).

A copy of the terms and conditions can be found at <a href="https://www.gov.uk/guidance/energy-technology-list">https://www.gov.uk/guidance/energy-technology-list</a>.

Signature: \_\_\_\_\_\_ Date: \_\_\_\_\_



### For more information:

#### Web:

https://www.gov.uk/guidance/energy-technology-list

#### Phone:

0300 3300657

#### Email:

ECAQuestions@carbontrust.co.uk

### Post:

Energy TL Coordinator, ICF, 6th floor, Watling House, 33 Cannon Street, London, EC4M 5SB

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