

# CEC ENERGY STORAGE DEVICE (ESD) APPLICATION CHECKLIST PATHWAY 2

Application Number	
<p><b>Required Main Standards (Both of these Standards will apply to Pre-assembled BS and Pre-assembled Integrated BESS products):</b></p> <ul style="list-style-type: none"> <li>UL 1973 (2013 or 2018)</li> </ul> <p><b>Pre-assembled Integrated BESS Products will also need to comply with CEC Inverter Application Requirements. Please refer to the CEC Inverter Categories Document and application checklist to determine the applicable standards</b>  <a href="https://www.cleanenergycouncil.org.au/industry/products/inverters/how-to-apply-inverters">https://www.cleanenergycouncil.org.au/industry/products/inverters/how-to-apply-inverters</a></p>	
<p>Equipment intended for outdoor usage – Legibility of markings (Labels) shall not be degraded by UV radiation. Compliance as per Separate Specific Requirement 7 in Best Practice Guide: Battery Storage Equipment which references IEC 60068-2-5 Ed3 2018 and ISO 4892-4</p>	
<p><b>Note:</b> As standards are continually updated with amendments or re-issued a new edition, the use of later edition or additional amendments to the standards listed above is acceptable</p>	

Check	Description	Yes/No/NA
<b>A Certification to Standards</b>		
1	Certificate(s) submitted for all Standards required for Pathway 2.	
2	Certifying Body has third party accreditation of their systems and processes.  (Certifying Body should be accredited to ISO/IEC 17065 with the required Standards in Scope)	
3	Certificate shows date of issue.	
4	Certificate is Valid ((As per Certifier Certificate Database).	
5	Brand/Trading names should be owned by Certificate holder.  (Or alternatively Certificate holder has authorisation to use Brand/Trading Name)	
6	All Series and Model Numbers on application are listed on Certificate(s).	
7	Co-Licence products have different Model Numbers to the Main Licence products.	
8	Each capacity variations of ESD have a unique model number.	
<b>B Test Reports</b>		
1	Test Reports have been submitted for all required Standards (including CDF and photo document attachments).	
2	Test Laboratory has third party accreditation for technical competency.	

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	(Certifying Body should be accredited to ISO/IEC 17025 with the required Standards in Scope)	
3	All Series and Model Numbers listed on application and Certificate(s) matches Model Numbers on Test Reports.	
4	Test Reports submitted are used to issue Certificate.	
<b>C Statement of Compliance</b>		
1	<p>Manufacturer/Certificate Holder has provided Statement of Compliance with Mandatory requirements of Best Practice Guide</p> <ul style="list-style-type: none"> <li>• Declaration is on Manufacturer/Certificate Holder company letterhead</li> <li>• Declaration lists all model numbers in application</li> <li>• Declaration has statement as per BPG “Compliant to Best Practice Guide for Battery Storage Equipment – Electrical Safety Requirements – version 1 – Pre-assembled battery system equipment/Pre-assembled integrated battery energy storage system equipment - Method 2 mandatory requirements”</li> <li>• Declaration is signed and dated</li> </ul>	
<b>D Specific Requirements</b>		
1	ESD external enclosure requirements. <b>Best Practice Guide Specific Requirements 1</b>	
2	Battery module is a sealed component with no access to battery terminals or cell components within module. <b>Best Practice Guide Specific Requirements 2</b>	
3	External/Internal DC Isolation devices to ensured parts to be installed/removed are isolated with no access to energised parts. All isolation devices are to operate in all live (active and neutral) conductors. <b>Best Practice Guide Specific Requirements 3</b>	
4	If internal isolation DC does not operate all live conductors, installation manual should include external isolation device requirements. <b>Refer to note 1 Best Practice Guide Specific Requirements 3</b>	
5	Detailed safety data sheet (SDS) – Which includes clear detail on any chemical hazard within the equipment or its components, and how to deal with safety related to those issues. <b>Refer to note 2 Best Practice Guide Specific Requirements 4</b>	
6	Detailed installation instructions to be supplied with equipment such as if for indoor use, any ventilation requirements. <b>Best Practice Guide Specific Requirements 5</b>	
7	Any user maintenance or optional process or procedures for the user need to be supplied with the equipment (including any shutdown or isolation processes and associated labels or warnings.) <b>Best Practice Guide Specific Requirements 6</b>	

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8	Does the datasheet or installation manual recommend outdoor installation? If so Marking needs to be suitably UV resistant – if instructions include it is for outdoor use (from IEC 60068-2-5 – ISO 4892-4). <b>Best Practice Guide Specific Requirements 7</b>	
9	ESD shall have IP ratings related to location of installation. Refer to note 3 <b>Best Practice Guide Specific Requirements 8</b>	
<b>E BESS Requirements</b>		
1	Requirements as per CEC List of Approved Inverters Requirements are met.	
2	BESS has label for available DRM Modes and DRM Port.	
3	All Importers Registered as responsible suppliers on ERAC.	
4	For BESS model numbers in application the make and model of the BESS are registered under each Responsible Supplier’s ERAC Supplier Number.	
<b>F BS Requirements</b>		
1	ESD manufacturer provided an inverter compatibility statement/ Declaration: <ul style="list-style-type: none"> <li>• Compatibility information is part of installation manual</li> <li>• Compatibility information is a separate statement/declaration</li> <li>• Declaration is on Manufacturer/Certificate Holder company letterhead</li> <li>• Declaration lists ESD model numbers in application</li> <li>• Declaration lists compatible inverters (make and model numbers)</li> <li>• Declaration is signed and dated</li> </ul>	
<b>G Installation Manual</b>		
1	Installation Manual covers all Model Numbers in Application.	
2	Installation Manual contains information on safe handling and storage of battery.	
3	Installation Manual contains information on installation location requirements.	
4	Installation Manual contains information regarding how to mount battery.	
5	Installation Manual contains information on clearances required around battery.	
6	Installation Manual contains information on grounding/earthing requirements.	
7	Installation Manual contains information on how make DC connections.	
8	Installation Manual contains information on how to make AC connections.	
9	Installation Manual contains information for connecting comms to inverter.	
10	Installation Manual contains information for setting up monitoring.	
11	Installation Manual has startup/shutdown procedures.	

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12	Installation Manual has startup/shutdown procedures.	
13	Installation Manual contains maintenance instructions (including electrical connections maintenance and cleaning of ESD) .	
For BESS Products Only		
14	Manual meets installation manual requirements as per inverter checklists	
<b>H Datasheet</b>		
1	Datasheet covers all Model Numbers in Application.	
2	Technical specs on datasheet matches Certificate and Test Reports.	
3	Warranty information on datasheets matches information provided in Warranty T&Cs.	
4	Datasheet is clear and does not contain any misleading information.  (Datasheet does not show CEC logo. The “CEC Member” logo may be used on a datasheet ONLY if the Certificate holder is a financial member of the CEC).	
For BESS Products Only		
5	Datasheet meets datasheet requirements as per inverter checklists.	
<b>I Warranty</b>		
1	Warranty document covers all Model Numbers in application.	
2	Warranty document includes a statement of consumer rights under Australian Consumer Law. <b>Refer to Note 4</b>	
3	Warranty document has contact details for both manufacturer/certificate holder and importer for claiming warranty – incl Business name, address, email address, phone number, web address.	
<b>J Importers and Manufacturer</b>		
1	Applicant has provided a full list of importers.	
2	All importers have signed CEC Importer Declaration Form (CEC to provide declaration form during application process).	
3	Every importer of the ESD to Australia is identified on the application, with ABN website and contact details.	
4	Manufacturer has a website accessible by the public for manufacturers documentation as submitted and approved by the CEC.  Documents may be uploaded under an “Australian Market” section to avoid conflict with documents for other markets.	

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	Documents to be uploaded include: Datasheet, SDS, Installation manual (and any other relevant user manual, technical/application notes), Inverter Compatibility Statement (BS Products only), Warranty T&Cs Note: This is the last part of the application when documents submitted have been accepted by CEC.	
5	Importer has a website accessible by the public for manufacturers documentation as submitted and approved by the CEC.  Documents to be uploaded include: Datasheet, SDS, Installation manual (and any other relevant user manual, technical/application notes), Inverter Compatibility Statement (BS Products only), Warranty T&Cs.  Note: This is the last part of the application when documents submitted have been accepted by CEC.	

**Note for co-licenced products:**

Where any device on the application is a co-licenced product (i.e. otherwise identical equipment, sold under two or more brand and model names, via more than one certificate holder), and the applicant has provided test reports for the device under a different brand and model from that on the submitted application and certificate:

CEC requires the certifier to provide written confirmation of the equivalent model numbers between the two brands, and that the test reports provided by the applicant are the same test reports used for the issue of the co-licence certificate.

**Note 1 for DC Isolation Devices:**

Isolation devices are required to ensure parts to be installed/removed are isolated with no access to energised parts. All isolation devices are to isolate all active conductors (positive and negative) simultaneously.

Pre-assembled battery system (BS) with an internal DC Isolation that only isolates one polarity will require an external DC Isolation Device that isolates all active conductors simultaneously. This information must be included in the installation manual.

**Note 2 for Safety Datasheet**

To ensure SDS are consistently written, the model code of practice for preparing safety data sheets for hazardous chemical shall be followed [Model Code of Practice: Preparation of safety data sheets for hazardous chemicals | Safe Work Australia](#) for details of requirements for SDS including Model Code of Practice: Preparation of safety data sheets for hazardous chemicals.

**Note 3 for IP Ratings:**

Minimum IP Ratings for

- Indoor Installations – IP2X
- Outdoor Installation – IP23

**Note 4 for Warranty Document Mandatory Text**

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It is a requirement of Australian Consumer Law that a document evidencing a warranty against defects must include mandatory text to ensure consumers are aware that any warranty against defects operates in addition to consumers' rights under the ACL. The mandatory text for the supply of goods is:

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure

For more details please refer to ACCC website:

<https://www.accc.gov.au/business/treating-customers-fairly/offering-warranties/warranties-against-defects>