

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

<b>Application Number</b>		<b>Application Date Received</b>	
<b>Invoice Number</b>		<b>Invoice Paid Date</b>	
<b>Required Primary Standards:</b> <ul style="list-style-type: none"> <li>UL 1973 (2013 or 2018)</li> </ul> <p><b>BESS Products will also need to comply with Inverter Standards. Please refer to the CEC Inverter Categories Document to determine the applicable standards</b>  <a href="https://assets.cleanenergycouncil.org.au/documents/products/inverter-categories.pdf">https://assets.cleanenergycouncil.org.au/documents/products/inverter-categories.pdf</a></p>			
<b>Required Secondary Standards:</b> <ul style="list-style-type: none"> <li>None</li> </ul>			
<p>Equipment intended for outdoor usage – Legibility of markings shall not be degraded by UV radiation. Compliance as per IEC 60068-2-5 Ed3 2018 (ISO 4892-4) – Separate Specific Requirement 7 in Best Practice Guide: Battery Storage Equipment</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
<b>A Certification to Standards</b>		
1	Manufacturer/Certificate Holder name on application matches name on Certificate(s)	
2	Certifying Body on application matches Certificate(s)	
3	Certificate number on application matches Certificate(s)	
4	Certificate expiry date matches expiry date provided by applicant	
5	Standards on certificate match required Standards	
6	Certifying Body has third party accreditation of their systems and processes (i.e. JAS-ANZ, IECEE)	
7	Brand/Trading names of product on application match those on Certificate(s)	
8	All Series and Model Numbers on application are listed on Certificate(s)	
9	Each capacity variations of ESD has a unique model number	
<b>B Test Reports</b>		
1	Test Reports have been submitted for all required Standards	
2	Test Laboratory has third party accreditation for technical competency (i.e. NATA, IECEE, etc)	
3	All Series and Model Numbers listed on application and Certificate(s) matches Model Numbers on Test Reports	

CEC ENERGY STORAGE DEVICE (ESD) APPLICATION CHECKLIST PATHWAY 2

<b>C Statement of Compliance</b>		
1	Manufacturer has provided Statement of Compliance with Mandatory requirements of Best Practice Guide	
<b>D Product Details</b>		
1	<p>The following Product information is found in manufacturers documentation:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> ESD Chemistry Type</li> <li><input type="checkbox"/> Rated and Max Apparent AC Power (BESS Products Only)</li> <li><input type="checkbox"/> Rated DC Power (BS Products Only)</li> <li><input type="checkbox"/> Max, Min, Nominal DC Voltage</li> <li><input type="checkbox"/> Nominal and Usable Battery Capacity</li> <li><input type="checkbox"/> Battery Depth of Discharge</li> <li><input type="checkbox"/> Battery Short Circuit current</li> <li><input type="checkbox"/> Battery Max Charge/Discharge Current</li> <li><input type="checkbox"/> Battery Max Charge/Discharge Power</li> <li><input type="checkbox"/> Max and Min Operating Temperature</li> <li><input type="checkbox"/> IP Rating</li> <li><input type="checkbox"/> Recommended Indoor/Outdoor Usage</li> <li><input type="checkbox"/> Integrated PV Switches, Battery DC Isolator (or if External DC Isolator is required)</li> <li><input type="checkbox"/> Inbuilt Comms</li> <li><input type="checkbox"/> Product Measurement Details</li> </ul>	
<b>E 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>	

CEC ENERGY STORAGE DEVICE (ESD) APPLICATION CHECKLIST PATHWAY 2

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 – ISO4892-4) <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>F 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>G BS Requirements</b>		
1	ESD manufacturer provided an inverter compatibility statement/ Declaration	
<b>H Installation Manual</b>		
1	Installation Manual covers all Model Numbers in Application	
2	Installation Manual contains information on installation location requirements	
3	Installation Manual contains information regarding how to mount battery	
4	Installation Manual contains information on clearances required around battery	
5	Installation Manual contains information on grounding/earthing requirements	
6	Installation Manual contains information on DC connections	
7	Installation Manual contains information on AC connections	
8	Installation Manual contains information for connecting comms	
9	Installation Manual contains information for setting up monitoring	
10	Installation Manual contains maintenance instructions	
For BESS Products Only		
11	Installation Manual contains information for Earth Fault alarm notification	
12	Installation Manual contains information for setting power quality response modes	
13	Installation Manual contains information for setting country code	
14	Installation Manual contains information for compatible external RCD (Type and Rating)	
15	Technical specs in Installation Manual matches Certificate and Test Reports	
16	Installation manual is clear and does not contain any misleading information	

CEC ENERGY STORAGE DEVICE (ESD) APPLICATION CHECKLIST PATHWAY 2

<b>I Datasheet</b>		
1	Datasheet covers all Model Numbers in Application	
2	Datasheet is in a form suitable for installer to provide to end user, as manufacturer's documentation and is not misleading	
3	Technical specs on datasheet matches Certificate and Test Reports	
4	Warranty information on datasheets matches information provided in Warranty T&Cs	
<b>J 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 name, address, email address, phone number, web address	
<b>K Importers and Manufacturer</b>		
1	Applicant has provided a full list of importers.	
2	All importers have signed CEC Importer Declaration Form	
3	Every importer of the ESD to Australia is identified on the application, with ABN website and contact details. (Verify ABN)	
4	Importer must be Australian company with an ACN, or an individual, not a business name or a trust. (ACN is the ABN without first two numbers. Verify ACN on ASIC website)	
5	Manufacturer has a publicly available copy of the Datasheet on their website	
6	Manufacturer has a publicly available copy of the installation manual on their website	
7	Manufacturer has publicly available copy of inverter compatibility statement on website (BS Only)	
8	Manufacturer has publicly available copy of the Safety Datasheet on their website	
9	Manufacturer has a publicly available copy of the warranty on their website	
10	Importer has a publicly available copy of the Datasheet on their website	
11	Importer has a publicly available copy of the installation manual on their website	
12	Importer has publicly available copy of inverter compatibility statement on website (BS Only)	
13	Importer has publicly available copy of the Safety Datasheet on their website	

14	Importer has a publicly available copy of the warranty on their website.	

**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 (e.g. SAA, TUV Rh Australia) 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). The exception being if one conductor is connected either to earth or to a protective earthing conductor, that conductor does not need to be switched or isolated.

Pre-assembled battery system (BS) with an internal 1 Pole DC Isolation device where the non-switched conductor is not connected to earth or to a protective earthing conductor will require an external 2 Pole DC Isolation Device to isolate all active conductors. 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. [https://www.safeworksaustralia.gov.au/resources\\_publications/model-codes-of-practice](https://www.safeworksaustralia.gov.au/resources_publications/model-codes-of-practice) 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**

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>