# A&D DC-DC converters nomenclature

## Standard device type
- **AFL**: 66-120 W
- **AHE**: 15 W
- **AHF**: 12 W
- **AHV**: 15 W
- **ASA**: 5 W
- **ATO**: 15 W
- **ATR**: 30 W

## Input voltage
- 28 V
- 50 V
- 70 V
- 120 V
- 270 V

## Output voltage (Single/Dual output)
- 5 V
- 12 V
- 15 V
- 2.5 V
- 3.3 V

## Output voltage (triple output)
- 125 V main, +/- 12 V aux output
- 155 V main, +/- 15 V aux output

## Screening level (See screening table)
- **ESB**: ESB
- **CHB**: CHB

## Case style
- **Blank**: Y
- **Z**: W
- **X**: F = Flange

## Screenining table

<table>
<thead>
<tr>
<th>Requirement</th>
<th>MIL-STD-883 Method</th>
<th>CHB</th>
<th>ESB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature range</td>
<td>MIL-PRF-38534 &amp; specification</td>
<td>-55°C to +125°C</td>
<td>-55°C to +125°C</td>
</tr>
<tr>
<td>Element evaluation</td>
<td>2017</td>
<td>Class H</td>
<td>-</td>
</tr>
<tr>
<td>Internal visual</td>
<td>2001, Y1 axis</td>
<td>3000 Gs</td>
<td>500 Gs</td>
</tr>
<tr>
<td>Temperature cycle</td>
<td>1010</td>
<td>Condition C</td>
<td>Condition C</td>
</tr>
<tr>
<td>Constant acceleration</td>
<td>1015</td>
<td>160 hours at 125°C</td>
<td>48 hours at 125°C</td>
</tr>
<tr>
<td>Burn-in</td>
<td>1014</td>
<td>Condition A, C</td>
<td>Condition A, C</td>
</tr>
<tr>
<td>Final electrical (group A)</td>
<td>MIL-PRF-38534 &amp; specification</td>
<td>-55°C, +25°C, +125°C</td>
<td>25°C</td>
</tr>
<tr>
<td>Percent defective allowable</td>
<td>MIL-PRF-38534</td>
<td>10%</td>
<td>-</td>
</tr>
<tr>
<td>Seal, fine &amp; gross</td>
<td>2009</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

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© Sample tests at low and high temperatures
© -55°C to 105°C for AHE and ATO, -55°C to 105°C for all other models
© 105°C for AHE and ATO, 125°C for all other models
© Device is not compliant to MIL-PRF-38534
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