

# Guidance for DC Distribution Systems

(Development Review : Final)

2022. 1.



Machinery Rule Development Team

Effective Date : 1 July 2022

(The contract date for ship construction)

Present	Amendment	Remark
<p style="text-align: center;"><b>CHAPTER 2 SYSTEM AND ELECTRICAL EQUIPMENT</b></p> <p style="text-align: center;"><b>Section 1 System Design</b></p> <p>101. – 104. &lt;same as the present Rules&gt;</p> <p><b>105. Shore Connection Systems</b></p> <p>1. The shore connection systems of <u>the DC distribution system</u> shall comply with <u>the requirements</u> of <b>105.</b> and high voltage shore connection systems shall comply with the requirements of <b>Pt 9, Ch 8 of Rules for the Classification of Steel Ships.</b> The low voltage shore connection systems may be subject to the requirements of IEC PAS 80005-3.</p> <p>(1) – (6) &lt;same as the present Rules&gt;</p> <p>2. &lt;same as the present Rules&gt;</p> <p><b>3. Plugs and socket-outlets</b></p> <p>(1) General</p> <p>(A) Details including general arrangement of plug and socket-outlet are to be in accordance with IEC/<u>ISO/IEEE</u> 80005-1 Annex, IEC 62613-1 and IEC 62613-2.</p> <p>(B) – (D) &lt;same as the present Rules&gt;</p> <p style="text-align: center;"><b>Section 2 &lt;same as the present Rules&gt;</b></p>	<p style="text-align: center;"><b>CHAPTER 2 SYSTEM AND ELECTRICAL EQUIPMENT</b></p> <p style="text-align: center;"><b>Section 1 System Design</b></p> <p>101. – 104. &lt;same as the present Rules&gt;</p> <p><b>105. Shore Connection Systems</b></p> <p>1. The shore connection systems of the DC distribution system <u>installed on board</u> shall comply with the <u>relevant</u> requirements of <b>105.</b> and high voltage shore connection systems shall comply with the requirements of <b>Pt 9, Ch 8 of Rules for the Classification of Steel Ships.</b> The low voltage shore connection systems may be subject to the requirements of IEC PAS 80005-3.</p> <p>(1) – (6) &lt;same as the present Rules&gt;</p> <p>2. &lt;same as the present Rules&gt;</p> <p><b>3. Plugs and socket-outlets</b></p> <p>(1) General</p> <p>(A) Details including general arrangement of plug and socket-outlet are to be in accordance with IEC/<u>ISO/IEEE</u> 80005-1 Annex, IEC 62613-1 and IEC 62613-2.</p> <p>(B) – (D) &lt;same as the present Rules&gt;</p> <p style="text-align: center;"><b>Section 2 &lt;same as the present Rules&gt;</b></p>	<p>(Amended)</p> <p>– The requirement has been amended to apply to the system installed on board.</p> <p>(Amended)</p> <p>– The international standard number has been clarified.</p>