IMESA®
ELECTRICAL ENGINEERING

SHORE CONNECTION SOLUTION

Zero Emission Link

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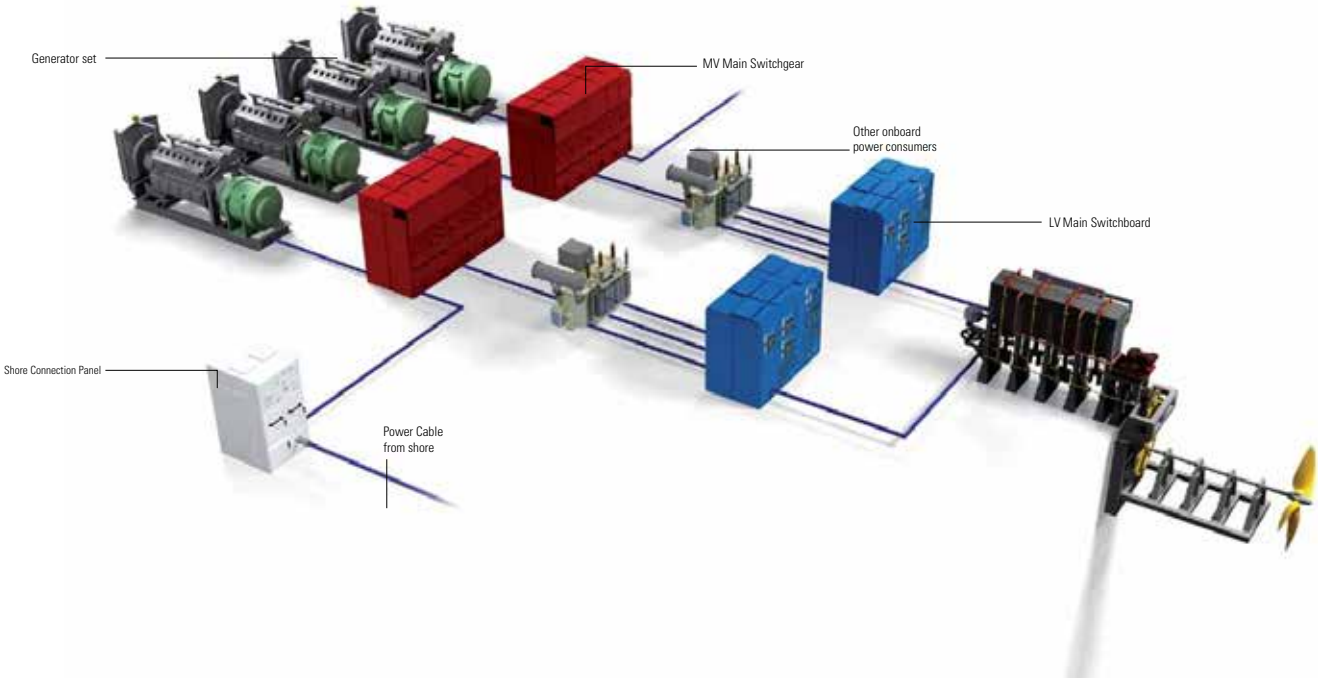
CRUISE VESSELS

MEGA YACHTS

NAVY VESSEL



For years Imesa has been a reliable supplier of electrical switchboards which act as the main distribution point of the electrical system of the ship. In the above scheme you can see how the Main Switchboard is able to distribute the power supplied by the generators to the various consumers, including the propulsion. This plant now includes a further new element, the shore connection panel which, bypassing the generator sets, supplies the main switchboard of the ship directly from the power grid on shore. The Shore Connection Panel (SPC) is typically made by a circuit breaker panel and a connector panel (which may vary in number and size according to the need for current and to the connection system provided). The SCP electrical characteristics can reach values of 12kV-50kA-2000A. The sockets are installed in the connector panel so as to ensure easy access by maintaining preserved the electrical requirements as well as the protection against possible internal arc.

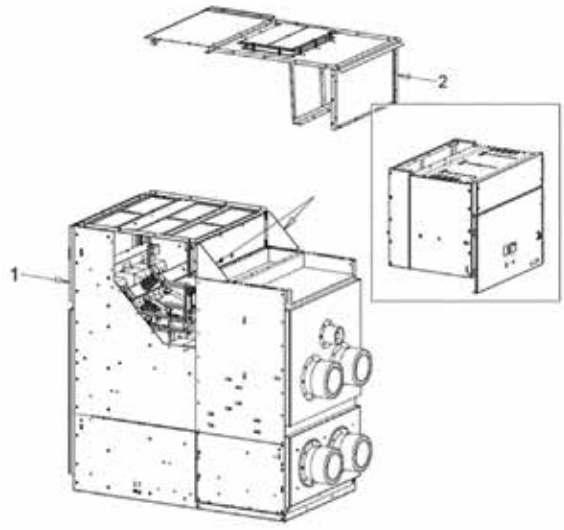
HVSC-Miniver C - PANELS ELECTRICAL CHARACTERISTICS		
Rated voltage	U_r [kV]	7.2 - 12
Rated power-frequency withstand voltage	U_d [kV]	20 - 28
Rated lighting impulse withstand voltage	Up [kV]	60 - 75
Rated frequency	f_r [Hz]	50 - 60
Rated continuous current	I_r [A]	630 - 1250 - 2000
Rated short-time withstand current	I_k [kA]	50 (3 s)
Rated peak withstand current	I_p [kA]	130
Internal arc classification		AFLR
Arc fault current and duration	I_A - t_A [kA - s]	50 - 1 s

JEKO-32 SOLUTIONS FOR CONTAINER HVSC

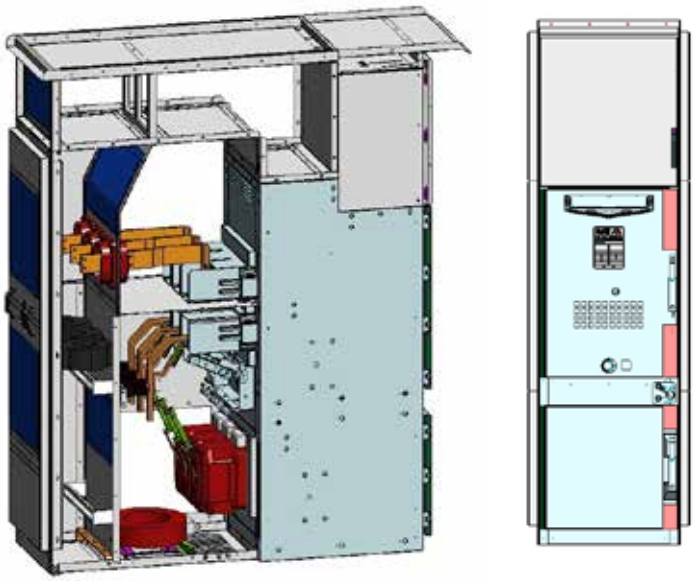
With its features the JEKO32 range is ideal for offering solutions designed for being adapted to every type of applications, maintaining the continuity of service and safety for operators.
Very compact, stylish and performing it suits for the Offshore installations, such as container vessels, however in all its versions the JEKO32 switchgear is designed in an execution that makes equipment operation possible (interrupting or earthing devices) directly from the front with closed door.
All our Switchboards are proven, efficient and reliable, constructed in full compliance with applicable rules and regulations.

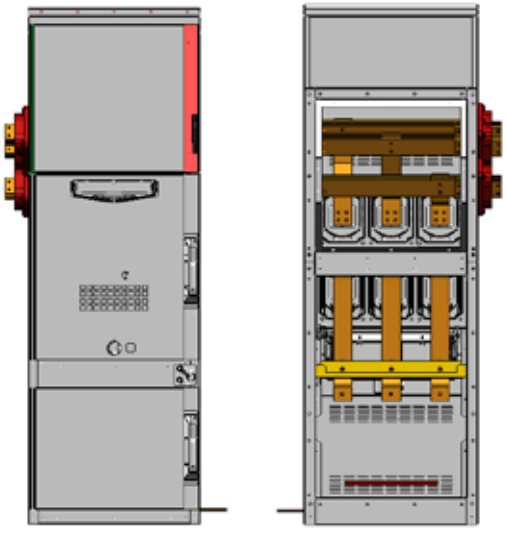
IN/OUT UNIT IN A SINGLE PANEL

SPLITTING FOR DELIVERY PURPOSE
AND POSITIONING INTO THE ROOM



COINTAINER VESSEL





HVSC-JECKO 32 - PANELS ELECTRICAL CHARACTERISTICS

Rated voltage	U_r [kV]	7.2 - 12
Rated power-frequency withstand voltage	U_d [kV]	20 - 28
Rated lighting impulse withstand voltage	Up [kV]	60 - 75
Rated frequency	f_r [Hz]	50 - 60
Rated continuous current	I_r [A]	630 - 1250 - 2000
Rated short-time withstand current	I_k [kA]	31.5 (3 s)
Rated peak withstand current	I_p [kA]	82
Internal arc classification		AFLR
Arc fault current and duration	$I_A - t_A$ [kA - s]	31.5 - 1 s

REFERENCE STANDARDS AND RULES

IEC/IEEE 80005 - 1 Part 1: High voltage shore connection (HVSC) systems General requirements

IEC/IEEE 80005 - 2 Part 2: High and low voltage shore connection systems Data communication for monitoring and control

IEC/IEEE 80005 - 3 Part 3: Low Voltage shore connection (LVSC) Systems General Requirements

IEC 62271 - 200 High Voltage switchgear and controlgear (1 kV 52 kV)

IEC 61439 - 1 Low-voltage switchgear and controlgear assemblies - Part 1: General rules

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Ed. 01.2024

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