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The 140 kW DC shore supply model 2065 was developed for the supply of a conventional submarine. Input supply can be either conventional 400V, 3ph, 50 Hz when using a land based shore grid, or 440 V, 3 ph, 60 Hz (in accordance with STANAG 1008 Ed. 9) when operated from a surface vessel using the respective board supply.

The complete design of the shore supply system is highly modular, allowing a tailor-made solution in terms of output voltage and current to the specific characteristics of the submarine class.

A rectifier with controller is used and allows to program the output.

Current limiting can be programmed between 5% of I_{nom} and the maximum rated current of 300 A.

The mechanical layout is primarily a 10 feet steel container with integrated switch cabinets for the charging station. A cooling system is mounted on the container walls and is removable for transportation in order to meet the customer requirement of 10 ft size.

The container can be certified with a CSC safety approval, allowing a comfortable transportation on sea.

General Features

- Modular system
- Customised configurations
- Programmable output
- Local control, control via Remote Control Box or LAN
- High efficiency
- Integrated cooling system
- Monitoring system integrated
- Built-in test
- 15 years support



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Mains Supply

Voltage	3 x 400/230 V
Voltage tolerance	±10%
Frequency	50 Hz
Frequency tolerance	±5%
Current	3 x 300 A
Power factor	0.6 to 0.9 dependent on voltage
Total Harmonic	
Distortion Current	≤12% dependent on voltage,
	current and mains

Auxiliary Voltage Supply

Voltage	.1 x 230
Voltage tolerance	
Frequency	.50 Hz
Frequency tolerance	.±5 %
Current	16 A

Output

Power	.140 kW max.
Current	.250 A
Current tolerance	.±1% static
Voltage	.360V to 560 VDC,
	in steps of $\pm 1V$ and $\pm 5V$
Voltage tolerance	.±1% static

Ripple	≤ 1.5% rms
Current tolerance	±1% static
Dynamic deviation	load step 10% to 100 % \leq -9% / \leq +5%
	load step 100% to 10 % ≤ +5%
Recovery time	load step 10% to 100 % ≤ 50 ms
	load step 100% to 10 % ≤ 300 ms

General

Operation modeContinuous operation		
ClassificationDIN, VDE, ICE, DNV GL		
Power losses15 kW		
EfficiencyApprox. 94% at full load		
Protection classI		
Isolation> 100 M Ω at 500 V		
Isolation range		
measured value1 k Ω 10 M Ω		
Degree of protectionIP 54 for transportation and storage,		
IP 23 during operation		
Ambient temperature20°C to +50°C		
(without condensation) for operation		
Corrosivity category		
outsideC5-M		
Dimensions L x W x H		
10 feet container2991 x 2438 x 2591 mm		
Weightapprox. 4000 kg		