

1 2 3 4 5 6 7 8

A

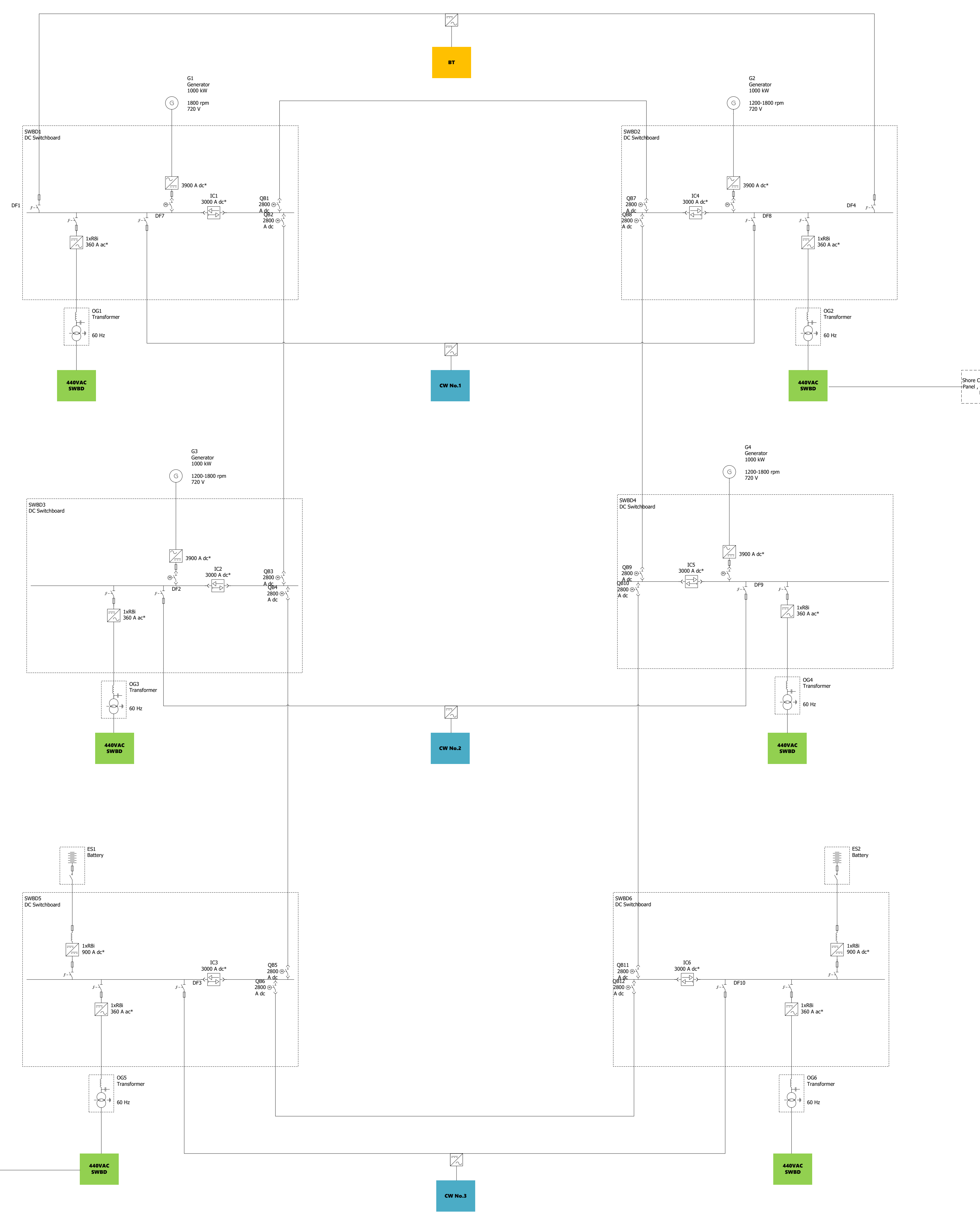
B

C

D

E

F



*Converter rated current. Derating factor may be applied.

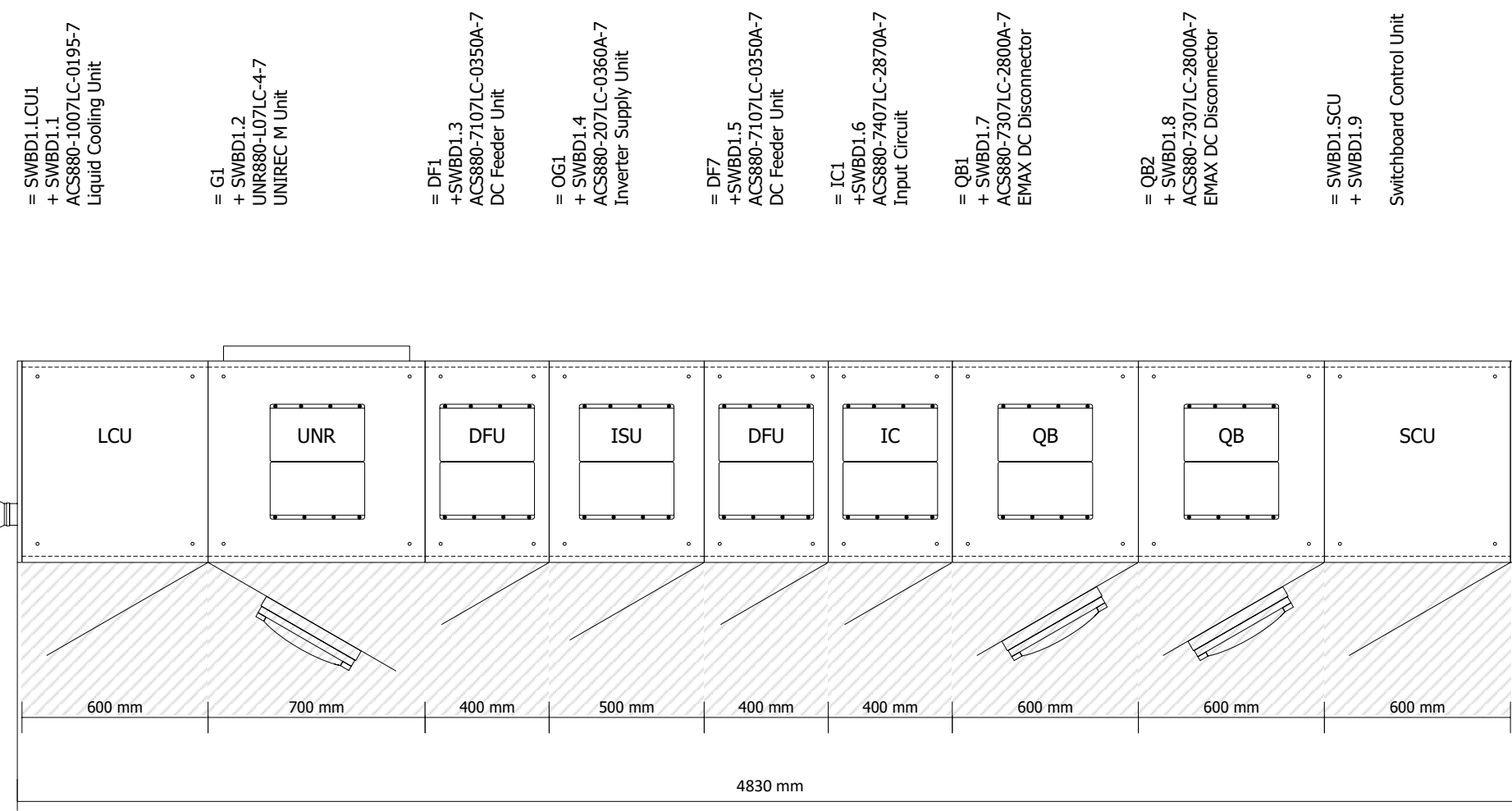
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				Draft	INTERNAL		
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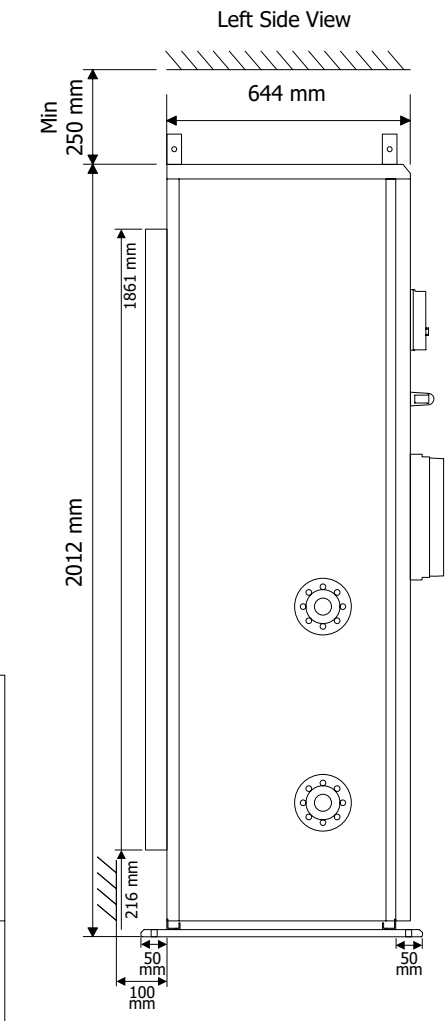
TITLE
 Overview Diagram
 Onboard DC Grid™
 Overall Single Line Diagram

REFERENCE DESIGNATION		SCALE	
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1 2 3 4 5 6 7 8



- = SWBD1.LCU1
+ SWBD1.1
ACS880-1007LC-0195-7
Liquid Cooling Unit
- = G1
+ SWBD1.2
UNR880-L07LC-4-7
UNIREC M Unit
- = DF1
+ SWBD1.3
ACS880-7107LC-0350A-7
DC Feeder Unit
- = OG1
+ SWBD1.4
ACS880-207LC-0360A-7
Inverter Supply Unit
- = DF7
+ SWBD1.5
ACS880-7107LC-0350A-7
DC Feeder Unit
- = IC1
+ SWBD1.6
ACS880-7407LC-2870A-7
Input Circuit
- = QB1
+ SWBD1.7
ACS880-7307LC-2800A-7
EMAX DC Disconnect
- = QB2
+ SWBD1.8
ACS880-7307LC-2800A-7
EMAX DC Disconnect
- = SWBD1.SCU
+ SWBD1.9
Switchboard Control Unit



Free Space	Suggested	Minimum
Front	1500 mm	800 mm
Top	(-)	250 mm
Left	(-)	200 ¹⁾ mm
Right	(-)	200 mm

Note:
 - All distances are referred from basic lineup dimensions.
 - Additional regulation may require extra space.
 1) Extra Space for Water Connection.

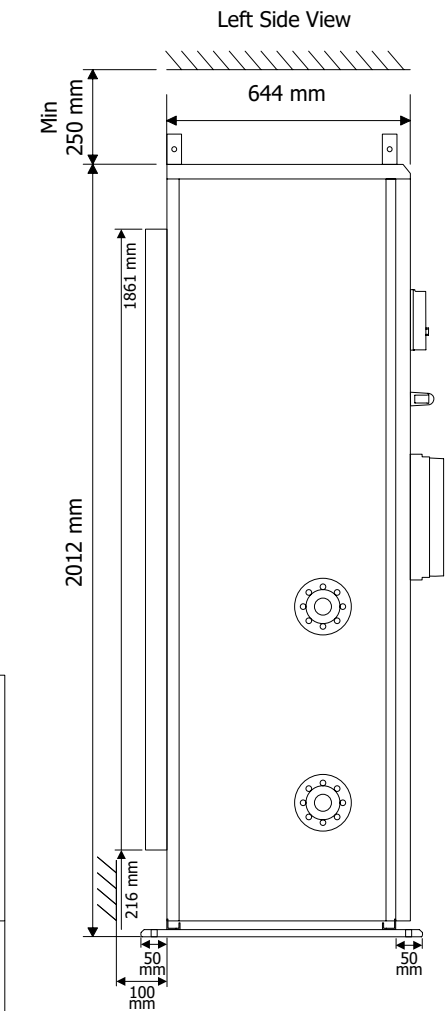
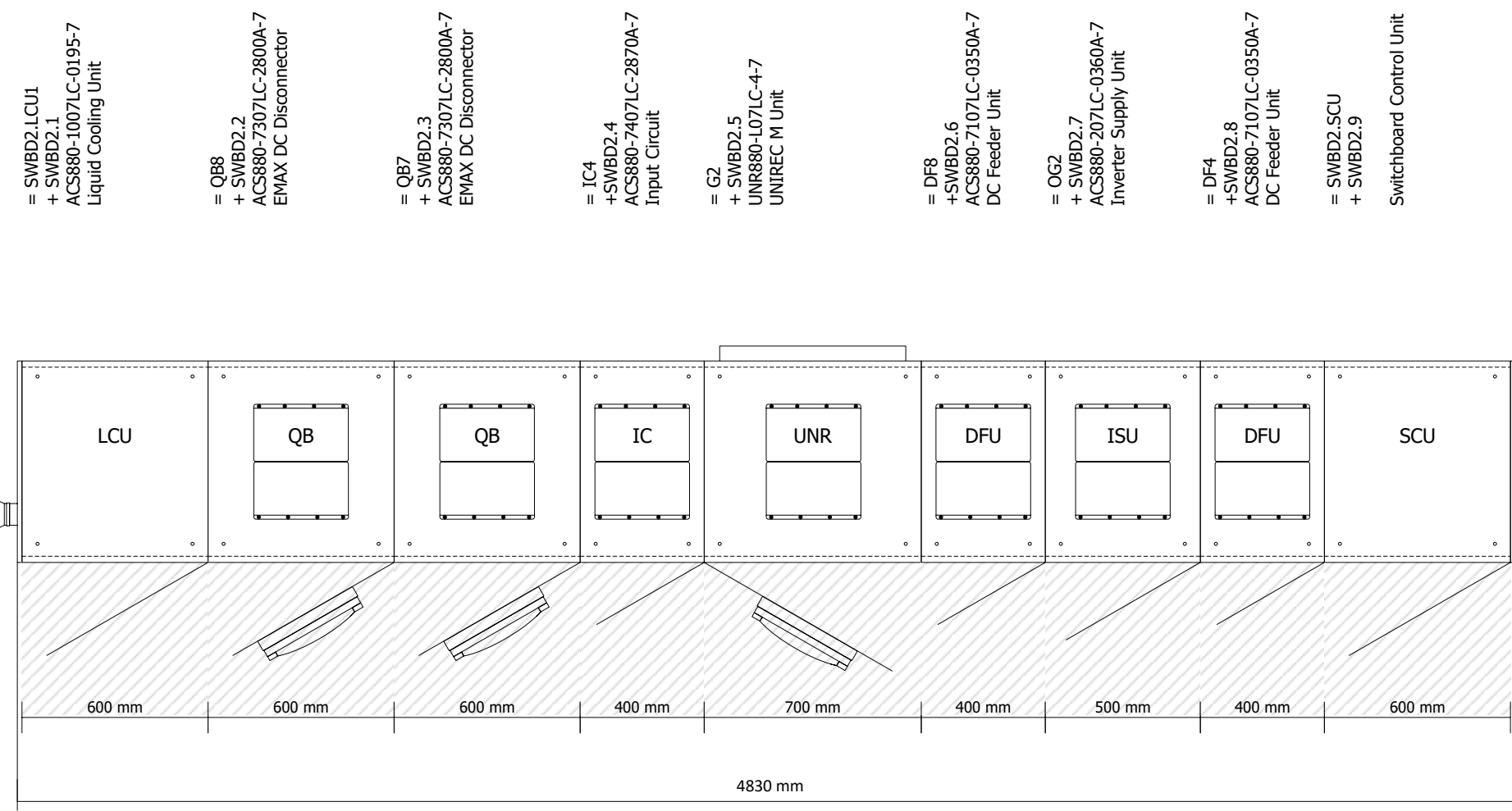
Technical Summary		SWBD1	
<p>Cooling Data</p> <p>Total Internal Water flow¹⁾: 88 l/min External Water flow²⁾: 467 l/min</p> <p>Nominal conditions: ¹⁾ 120 kPa, Antifrogen® L 25%, 40°C ²⁾ 36°C (Nominal Inlet Temperature) Extrenal coolant pressure loss: 150 kPa</p>		<p>Weight and Heat Dissipation Data</p> <p>Total Weight: 3526 kg Heat Dissipation into Air: 0,89 kW Heat Dissipation into Coolant: 18,36 kW</p>	

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TITLE
 Arrangement Drawing
 Onboard DC Grid™
 SWBD1

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Free Space	Suggested	Minimum
Front	1500 mm	800 mm
Top	(-)	250 mm
Left	(-)	200 ¹⁾ mm
Right	(-)	200 mm

Note:
 - All distances are referred from basic lineup dimensions.
 - Additional regulation may require extra space.
 1) Extra Space for Water Connection.

Technical Summary		SWBD2	
Cooling Data Total Internal Water flow ¹⁾ : 88 l/min External Water flow ²⁾ : 467 l/min Nominal conditions: ¹⁾ 120 kPa, Antifrogen® L 25%, 40°C ²⁾ 36°C (Nominal Inlet Temperature) Extrenal coolant pressure loss: 150 kPa		Weight and Heat Dissipation Data Total Weight: 3526 kg Heat Dissipation into Air: 0,89 kW Heat Dissipation into Coolant: 18,36 kW	

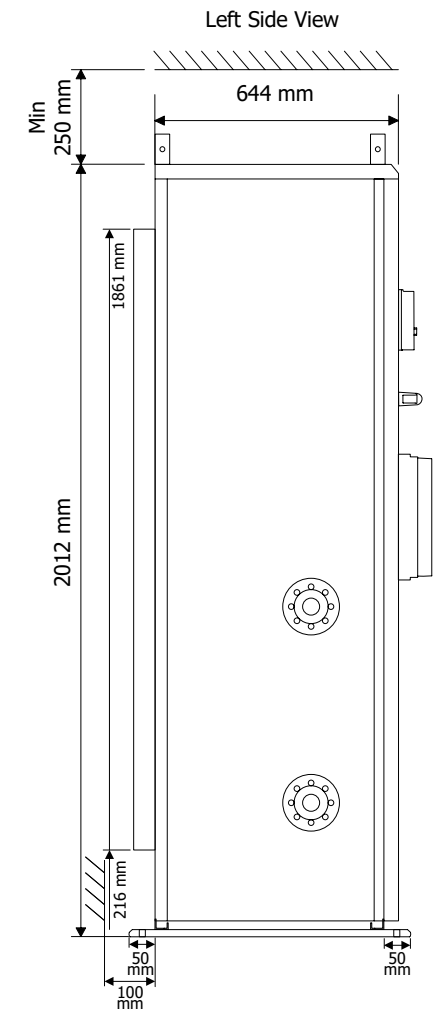
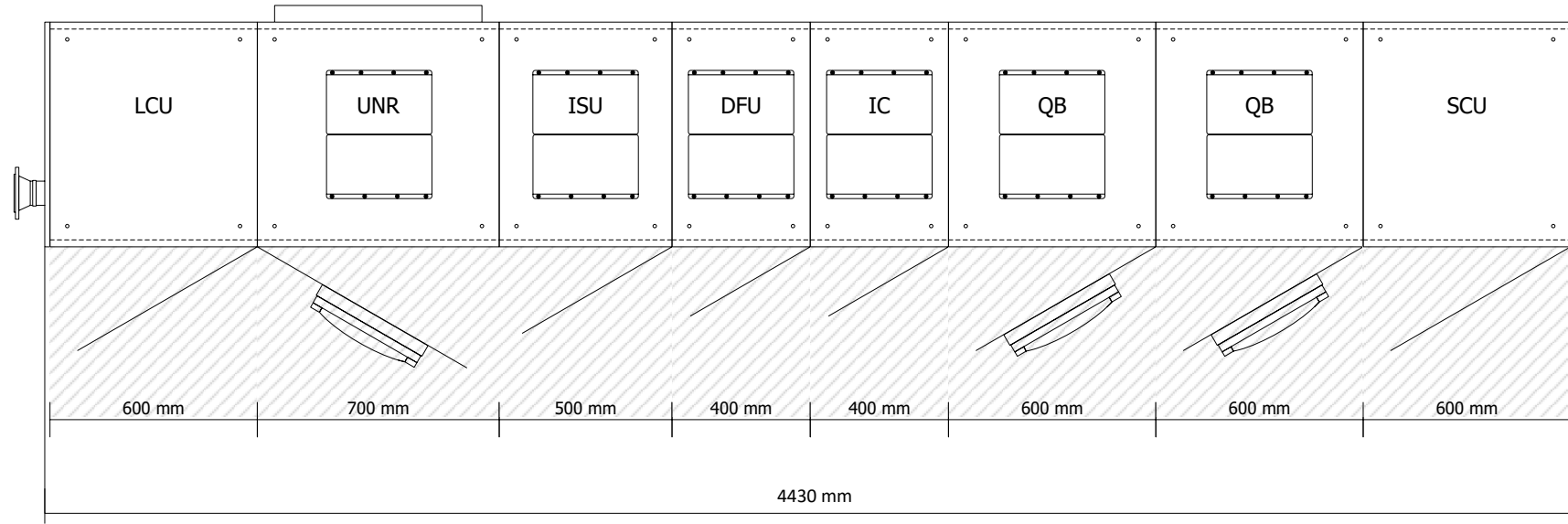
REV.	CHANGE	DATE	NAME	STATUS	SECURITY LEVEL	IMO NO.	PROJECT
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TITLE
 Arrangement Drawing
 Onboard DC Grid™
 SWBD2

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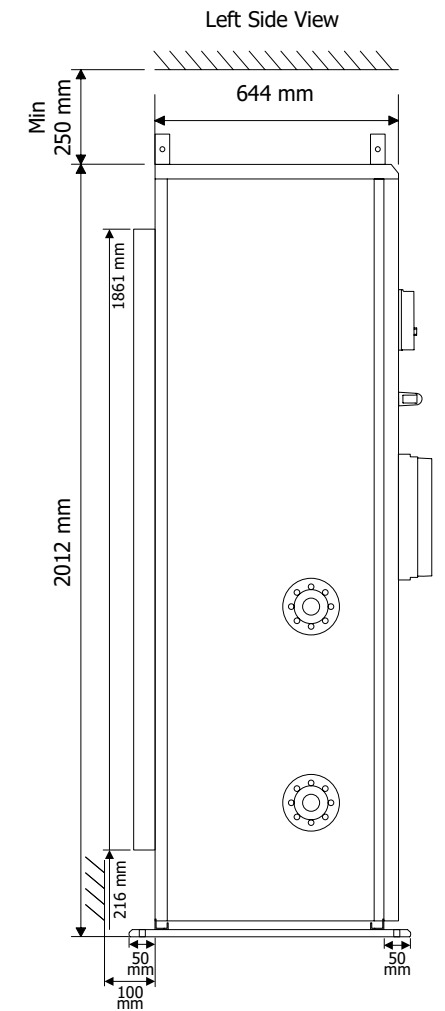
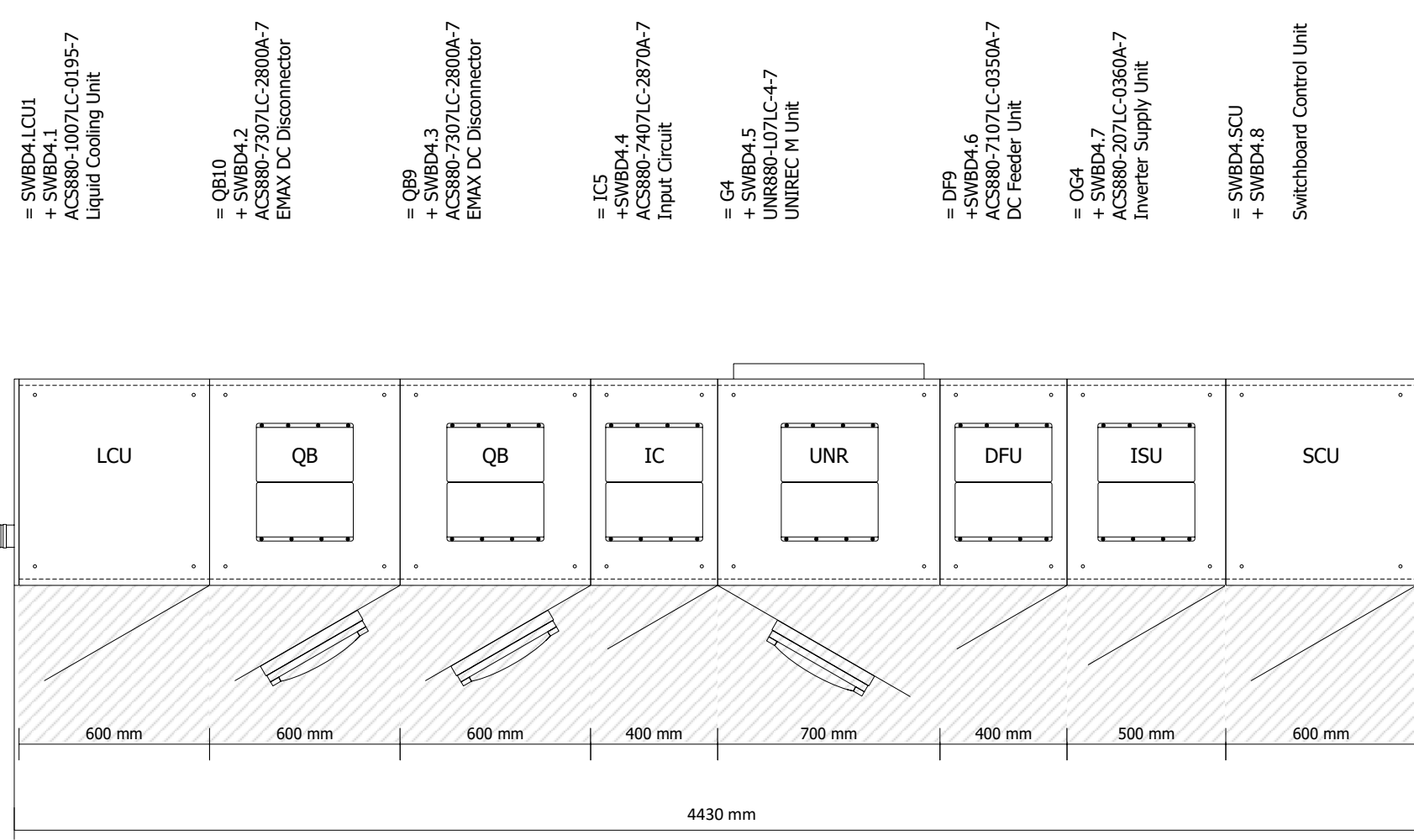
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+ SWBD3.1
ACS880-1007LC-0195-7
Liquid Cooling Unit
- = G3
+ SWBD3.2
UNR880-L07LC-4-7
UNIREC M Unit
- = OG3
+ SWBD3.3
ACS880-207LC-0360A-7
Inverter Supply Unit
- = DF2
+ SWBD3.4
ACS880-7107LC-0350A-7
DC Feeder Unit
- = IC2
+ SWBD3.5
ACS880-7407LC-2870A-7
Input Circuit
- = QB3
+ SWBD3.6
ACS880-7307LC-2800A-7
EMAX DC Disconnect
- = QB4
+ SWBD3.7
ACS880-7307LC-2800A-7
EMAX DC Disconnect
- = SWBD3.SCU
+ SWBD3.8
Switchboard Control Unit



Free Space	Suggested	Minimum
Front	1500 mm	800 mm
Top	(-)	250 mm
Left	(-)	200 ¹⁾ mm
Right	(-)	200 mm

Note:
 - All distances are referred from basic lineup dimensions.
 - Additional regulation may require extra space.
 1) Extra Space for Water Connection.

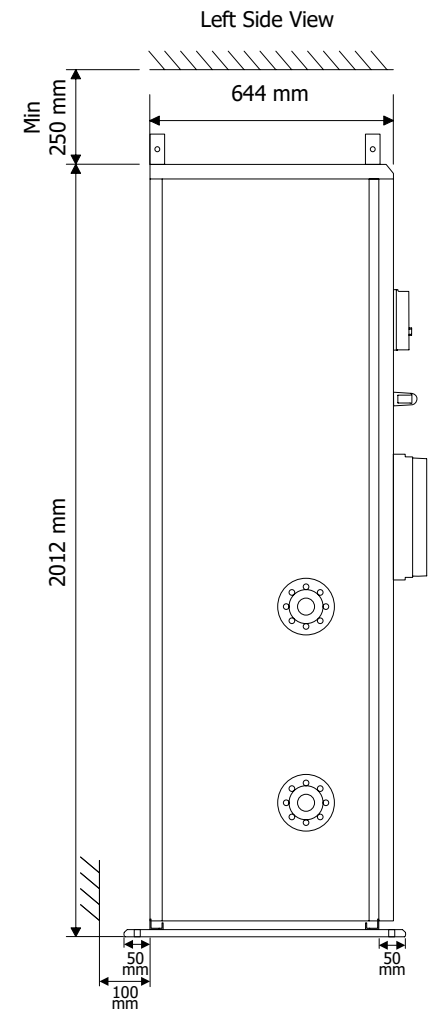
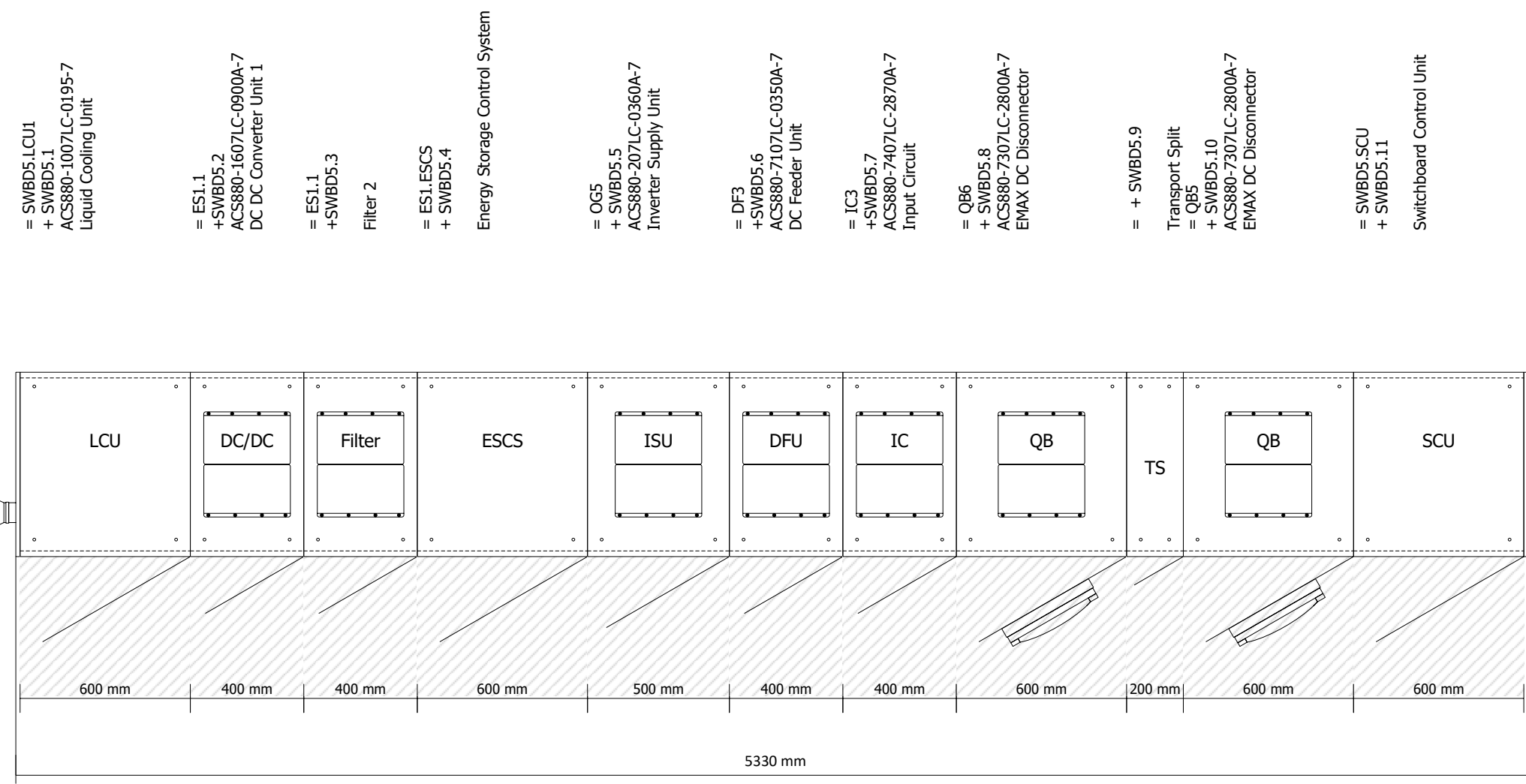
Technical Summary		SWBD3	
Cooling Data		Weight and Heat Dissipation Data	
Total Internal Water flow ¹⁾ : 84 l/min External Water flow ²⁾ : 467 l/min Nominal conditions: ¹⁾ 120 kPa, Antifrogen® L 25%, 40°C ²⁾ 36°C (Nominal Inlet Temperature) External coolant pressure loss: 150 kPa		Total Weight: 3226 kg Heat Dissipation into Air: 0,79 kW Heat Dissipation into Coolant: 18,36 kW	



Free Space	Suggested	Minimum
Front	1500 mm	800 mm
Top	(-)	250 mm
Left	(-)	200 ¹⁾ mm
Right	(-)	200 mm

Note:
 - All distances are referred from basic lineup dimensions.
 - Additional regulation may require extra space.
 1) Extra Space for Water Connection.

Technical Summary		SWBD4	
Cooling Data Total Internal Water flow ¹⁾ : 84 l/min External Water flow ²⁾ : 467 l/min Nominal conditions: ¹⁾ 120 kPa, Antifrogen® L 25%, 40°C ²⁾ 36°C (Nominal Inlet Temperature) External coolant pressure loss: 150 kPa		Weight and Heat Dissipation Data Total Weight: 3226 kg Heat Dissipation into Air: 0,79 kW Heat Dissipation into Coolant: 18,36 kW	



Free Space	Suggested	Minimum
Front	1500 mm	800 mm
Top	(-)	250 mm
Left	(-)	75 ¹⁾ mm
Right	(-)	200 mm

Note:
 - All distances are referred from basic lineup dimensions.
 - Additional regulation may require extra space.
 1) Extra Space for Water Connection.

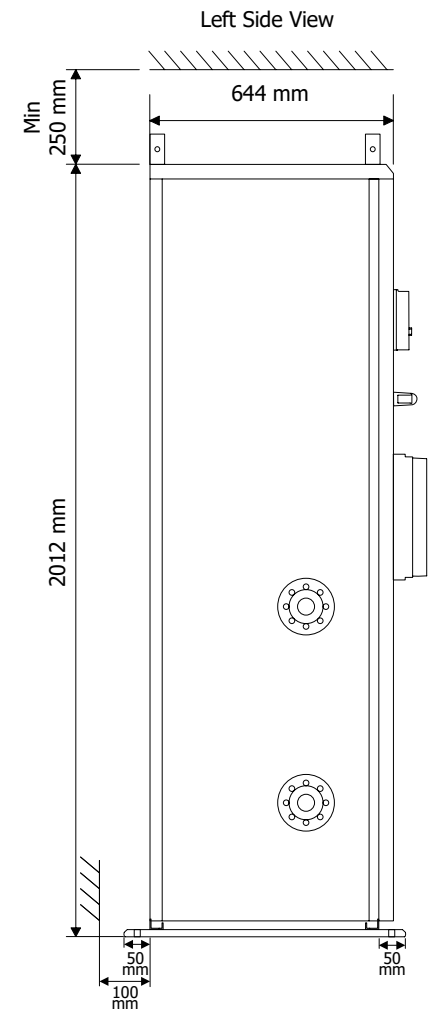
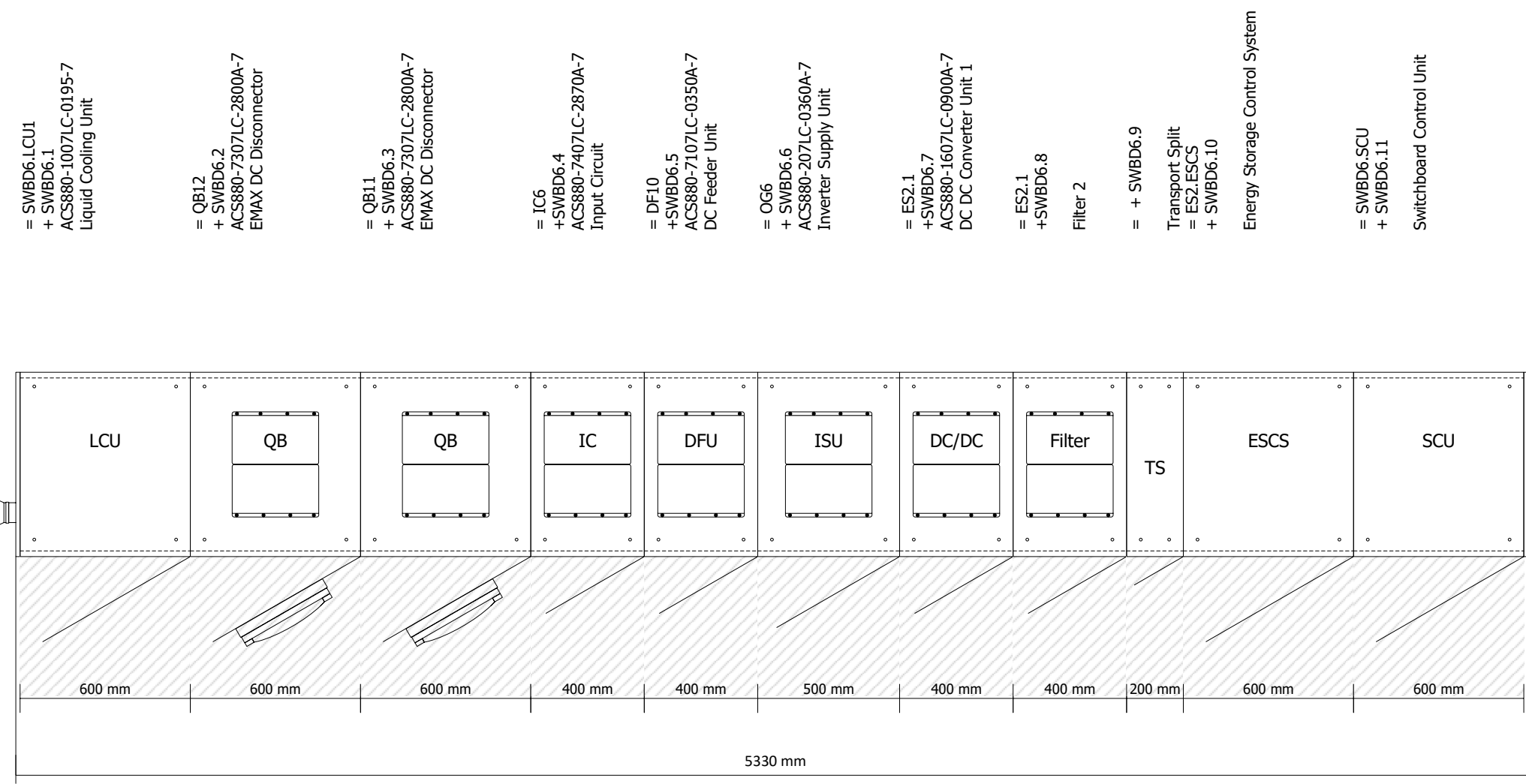
Technical Summary		SWBD5	
Cooling Data Total Internal Water flow ¹⁾ : 119 l/min External Water flow ²⁾ : 467 l/min Nominal conditions: ¹⁾ 120 kPa, Antifrogen® L 25%, 40°C ²⁾ 36°C (Nominal Inlet Temperature) External coolant pressure loss: 150 kPa		Weight and Heat Dissipation Data Total Weight: 4736 kg Heat Dissipation into Air: 1,225 kW Heat Dissipation into Coolant: 23,16 kW	

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TITLE
 Arrangement Drawing
 Onboard DC Grid™
 SWBD5

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Free Space	Suggested	Minimum
Front	1500 mm	800 mm
Top	(-)	250 mm
Left	(-)	75 ¹⁾ mm
Right	(-)	200 mm

Note:
 - All distances are referred from basic lineup dimensions.
 - Additional regulation may require extra space.
 1) Extra Space for Water Connection.

Technical Summary		SWBD6	
Cooling Data Total Internal Water flow ¹⁾ : 119 l/min External Water flow ²⁾ : 467 l/min Nominal conditions: ¹⁾ 120 kPa, Antifrogen® L 25%, 40°C ²⁾ 36°C (Nominal Inlet Temperature) Externel coolant pressure loss: 150 kPa		Weight and Heat Dissipation Data Total Weight: 4736 kg Heat Dissipation into Air: 1,225 kW Heat Dissipation into Coolant: 23,16 kW	

REV.	CHANGE	DATE	NAME	STATUS	SECURITY LEVEL	IMO NO.	PROJECT
				Draft	INTERNAL		
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TITLE
 Arrangement Drawing
 Onboard DC Grid™
 SWBD6

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