

ABB MOTION SERVICES

## ACW600 to ACS880LC retrofit

Extending life cycle. Enhancing performance.



ABB Retrofit service is a fast and efficient way to modernize your ACW600 drive and to bring reliability improvements to your plant and process. The Retrofit service can be done in challenging environments and carried out in line with your own production schedules to minimize unexpected downtime and avoid additional maintenance breaks.

**Fast and efficient way to modernize your drives**  
ACW600 drives are coming to the end of their life cycle and it will become difficult, if not impossible, to maintain them with normal maintenance programs. ABB enables you to continue to extract value from your asset with retrofit solutions that will update the drive to new ACS880 technology with the latest features and change its life cycle phase back to Active, ensuring the full spare part and technical support is available after the retrofit.



**Minimize planned downtime**



**Delivered in pre-assemblies to be assembled on site**



**Rapid deployment**



**Reduced waste and investment**

## The benefits of ACW600 to ACS880LC retrofits



### Ensure customer support for your equipment

Robust ACW600 drives are reaching the end of their life cycle, which means that support and spare part availability cannot be guaranteed in the near future. Retrofitting your drive with new ACS880 technology with the latest features changes the life cycle phase of the drive back to Active and ensures that full spare part and technical support will be available.



### Minimize the downtime

Keep the ship operating at sea during the modernization action. The retrofit can be done one drive at a time, so the ship can operate during the upgrade. If redundant drives are used, the redundancy allows operation with reduced capacity. Modernization can be done during operation, causing minimum production losses.



### Perform modernization in places, where it is difficult to access

Retrofit is built on-site, so there is no need for docking/cutting holes in the construction. The existing motor and grid connection is used, which means that there is no need for structural work. The retrofit will be delivered in parts that can be transported through a narrow access. There is no need to make changes in the surrounding constructions.

---

## ABB Retrofit service in a nutshell

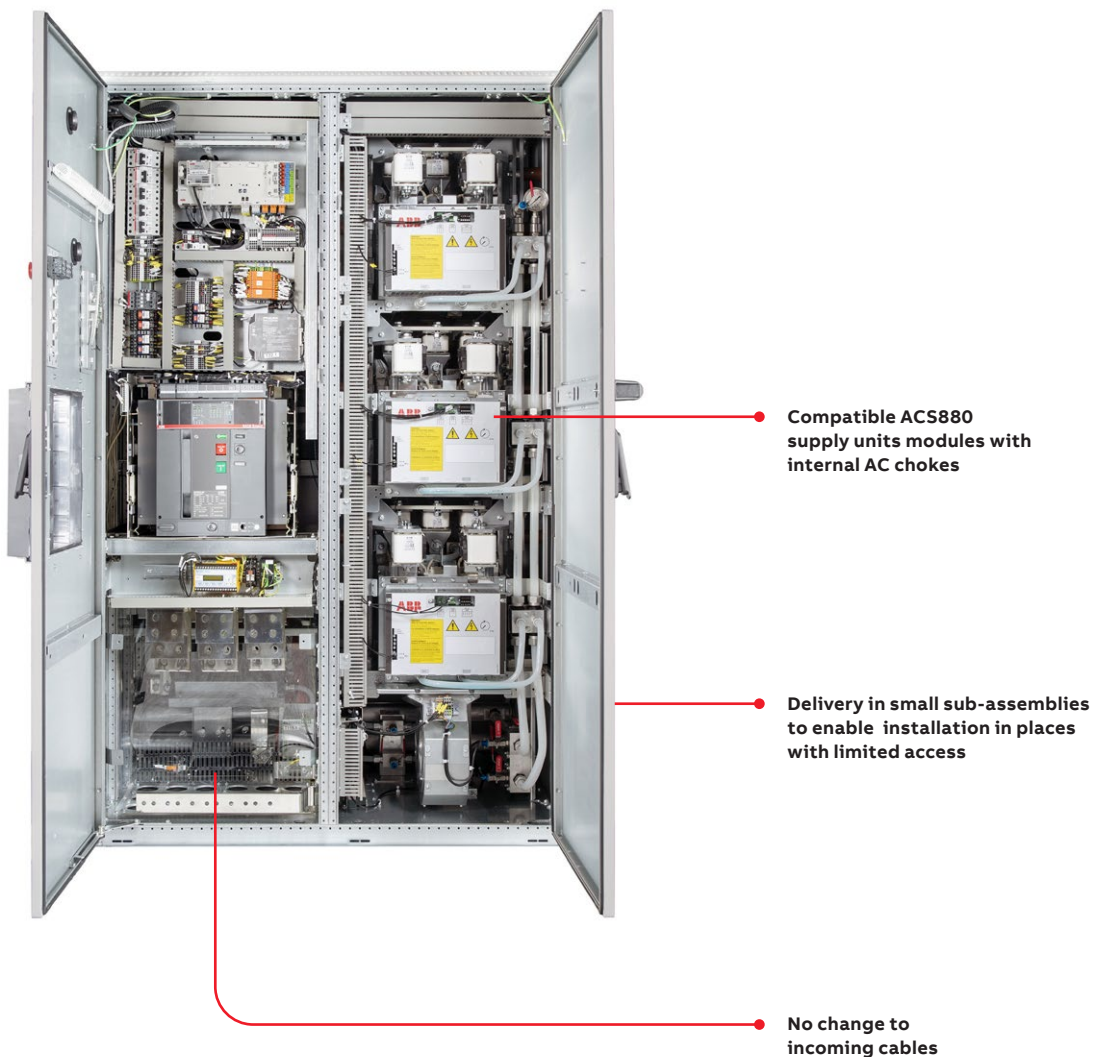
### What will change after the retrofit?

The ABB Retrofit service is a fast, effective way to modernize installed drives, bringing immediate performance improvements to a plant or process.

The retrofit is designed so that the drive units can be replaced with new ACS880 inverter modules using the installation hardware and instructions included in the delivery. The existing infrastructure, cabinets and cabling, electrical machinery and automation system do not need to be replaced.

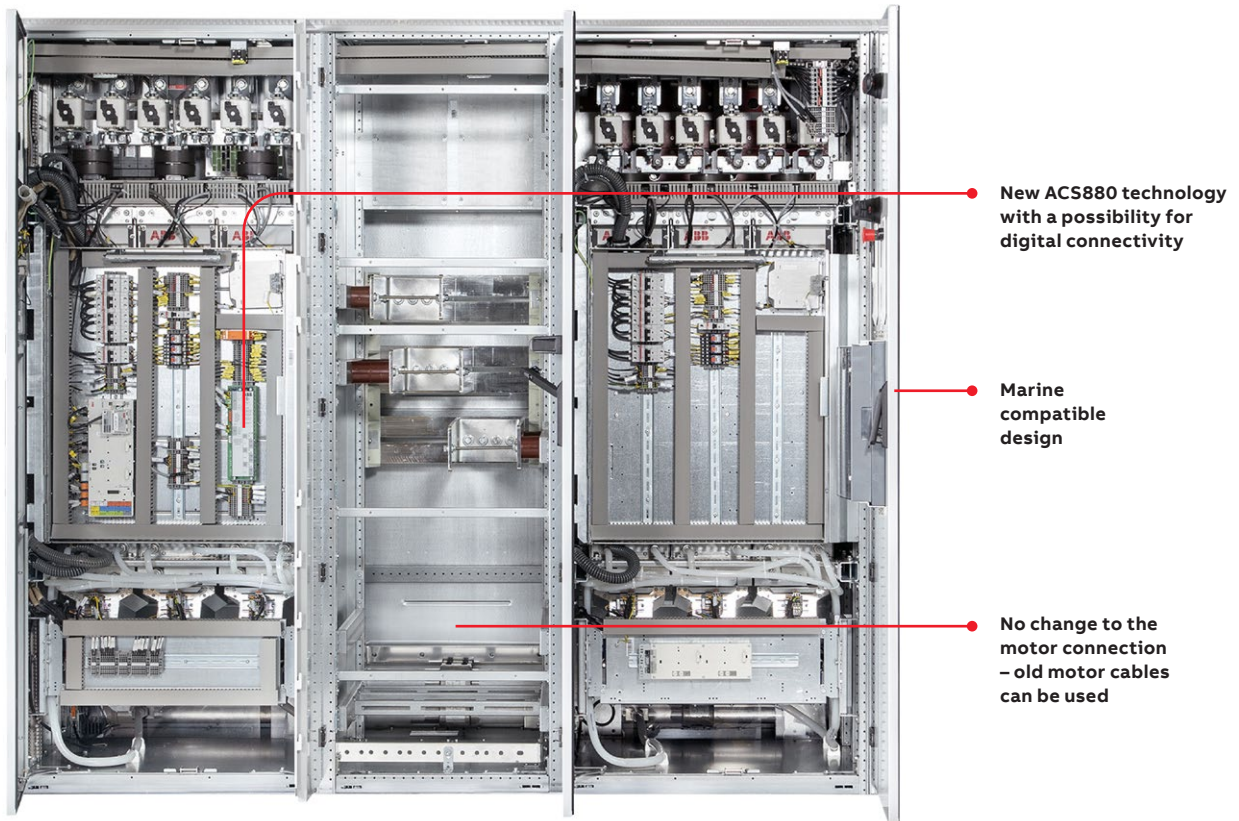
---

### Supply ACW631/ACW633 to ACS880R-307LCS6



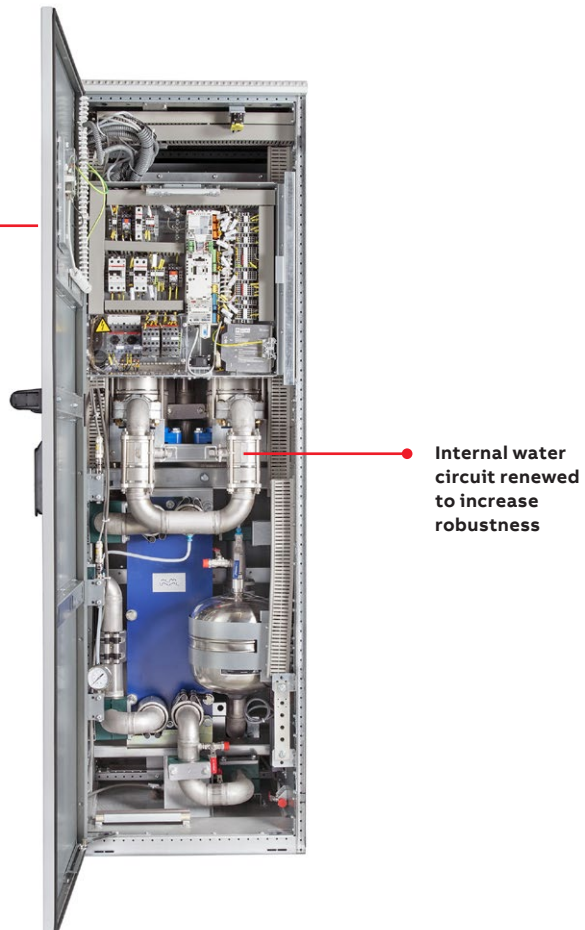


## INU ACW610 to ACS880R-107LCS6



## LCU ACW695 to ACS880R-1007LCS6

Liquid inlet/  
outlet connection  
remains in the  
original place



Technical data

Selection table for upgrade and retrofit types

Retrofit types for ABB ACW600 drives

Old drive type	Old frame	New module type	New frame	Cabinet width (mm)
Diode supply unit (DSU)				
ACW631-1400-6	2xB3	ACS880R-307LCS6-1171A-7	2xD8T	800
ACW633-1400-6	2xB3	ACS880R-307LCS6-1171A-7	2xD8T	800
ACW633-2660-6	4xB3	ACS880R-307LCS6-2226A-7	4xD8T	1600
ACW631-2600-6	1xB5	ACS880R-307LCS6-2176A-7	3xD8T	1200
ACW633-5200-6	2xB5	ACS880R-307LCS6-4352A-7	6xD8T	2400
Inverter unit (INU)				
ACW610-0210-6	1xR8i	ACS880R-107LCS6-0264A-7	1xR8iLC	500
ACW610-0320-6	1xR8i	ACS880R-107LCS6-0264A-7	1xR8iLC	500
ACW610-0380-6	1xR9i	ACS880R-107LCS6-0410A-7	1xR8iLC	500
ACW610-0490-6	1xR9i	ACS880R-107LCS6-0410A-7	1xR8iLC	500
ACW610-0710-6	2xR9i	ACS880R-107LCS6-0779A-7	1xR8iLC	700
ACW610-0930-6	2xR9i	ACS880R-107LCS6-0779A-7	1xR8iLC	700
ACW610-1050-6	1xR12i	ACS880R-107LCS6-1156A-7	2xR8iLC	1000
ACW610-1390-6	1xR12i	ACS880R-107LCS6-1156A-7	2xR8iLC	1000
ACW610-1985-6	2xR12i	ACS880R-107LCS6-2196A-7	3xR8iLC	2000 *)
ACW610-2625-6	2xR12i	ACS880R-107LCS6-2196A-7	3xR8iLC	2000 *)
ACW610-2945-6	3xR12i	ACS880R-107LCS6-3260A-7	5xR8iLC	3000 **)
ACW610-3900-6	3xR12i	ACS880R-107LCS6-3260A-7	5xR8iLC	3000 **)
ACW610-5145-6	4xR12i	ACS880R-107LCS6-4300A-7	6xR8iLC	3800 **)
Liquid cooling unit (LCU)				
ACW695-50		ACS880R-1007LCS6-0195-7		600
ACW695-100		ACS880R-1007LCS6-0195-7		600
ACW695-175		ACS880R-1007LCS6-0195-7		600
Braking sections				
ACW621-0400-6	1xNBRW-669	ACS880R-607LCS6-0400-7	1xNBRW-669C	400
ACW621-0800-6	2xNBRW-669	ACS880R-607LCS6-0800-7	2xNBRW-669C	400
ACW621-1200-6	3xNBRW-669	ACS880R-607LCS6-1200-7	3xNBRW-669C	800
ACW621-1600-6	4xNBRW-669	ACS880R-607LCS6-1600-7	4xNBRW-669C	800
ACW621-2000-6	5xNBRW-669	ACS880R-607LCS6-2000-7	5xNBRW-669C	1200
ACW621-2400-6	6xNBRW-669	ACS880R-607LCS6-2400-7	6xNBRW-669C	1200

\*) Includes 400 mm cabling section  
\*\*) Includes 600 mm cabling section

# Service delivery process



## Check the drive type

ACW600 drives are at the end of their Classic life cycle phase; now is the time to consider a retrofit service.



## Assess the existing system with ABB

Assessing the existing installation allows ABB specialists to identify all required elements in order to determine retrofit options as well as to schedule and plan the installation.



## Configure the solution with ABB

The retrofit service is configured to match the current system demands, often without updating external components. In case the configured solution doesn't match your requirements, ABB can also provide engineering to fulfill specific demands.



## Scheduling the installation

Retrofit is convenient and easy to integrate into your maintenance schedules. It can be carried out by minimizing the need for production stoppage.



## Installation and commissioning with ABB

The retrofit service is designed to save installation time. ABB-certified service engineers install and commission the retrofit.



## Continue efficient operation

The drive system is restored to the active life cycle phase with full support, including spare parts and technical advice. The retrofit is supplied with a two-year warranty.

For more information, please contact your local ABB representative or visit

[new.abb.com/service/motion](https://new.abb.com/service/motion)

[new.abb.com/service/motion/modernization-and-performance-improvement-services/drives](https://new.abb.com/service/motion/modernization-and-performance-improvement-services/drives)

[new.abb.com/drives](https://new.abb.com/drives)

[new.abb.com/channel-partners/search](https://new.abb.com/channel-partners/search)

We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction, disclosure to third parties or utilization of its contents – in whole or in parts – is forbidden without prior written consent of ABB. Copyright© 2022 ABB. All rights reserved.