Benefit from various Hardware Upgrades in order to enhance the efficiency and reliability of your drive and to bring it to the latest level of technology. Our aim is to maximize long-term value for our customers.

Manage the life cycle of your drive
ABB Drives’ product life cycle management model offers proactive services in order to maximize the availability and performance of medium voltage drives and improve overall efficiency. This model provides optimum support to end users and a smooth transition to a modern system when the operational life of the existing drive has reached a certain status.

Migration to latest technology
ABB commits to apply all expertise and technology improvements to both new and matured drives. With Hardware Upgrades you can enhance the functionality of your drive, thereby providing the best possible return on investment by phased migration to the latest technology.

The right time for the right service
It is time to consider a Hardware Upgrade if you are facing growing requirements or when a major maintenance activity is due. Hardware upgrades enhance your drive with new features at minimum costs when planned at the right time of the Lifecycle.

Operational efficiency
Keep your drives running with precisely planned and executed maintenance.

Rapid response
If your drives require immediate action, our global network is at your service.

Life cycle management
Maximize your drive’s lifetime with our services.

Performance improvement
Get optimal performance out of your machinery and systems.

Service note
ACS6000 Upgrade services for marine
The fast track to enhance your drive
The way to improved performance

Hardware Upgrades provide enhanced product features, ensure availability and raise the efficiency of your medium voltage drives throughout their entire lifetime. Extended product support and optimized maintenance costs will definitely pay off.

**Main Board upgrade**
All control related circuit boards will be upgraded to the latest versions, making available a lot of new features.

**Benefits**
- Increased braking power and higher dynamic
- “Black Box”: faster fault finding ensures a shorter MTTR
- Protection of IGCTs at unspecified safeline black out
- Provides basic requirements for additional upgrades

**Arc Guard™ upgrade**
Optical sensors detect dangerous flash overs and the Arc Guard™ immediately interrupts the main power, protecting your personnel from human injuries or your electrical equipment from damage.

**Benefits**
- Increased human and operational safety
- Reduction of downtime
- Scalable scope depending on the specific customer drive
- Compliance with IEC 62271-200 standard

**Fast recovery upgrade**
Generator failures inevitably lead to a power loss at the converter and a stop or trip of the drive. By using the UPS as power source, the fast recovery modification allows an immediate restart of the propulsion system.

**Benefits**
- Improved availability
- Reduced startup time
- Faster reaction time

**Design upgrades**
Depending on your needs, you can implement the following changes in the course of a normal maintenance activity:
- Doorlock with new design
- Water fast connectors
- Doorfans
- Manual output disconnector

**Tailored solutions**
Customized changes for remote monitoring, redundancies, etc. are possible. Contact your local ABB representative and we will find a solution for your specific needs.

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

new.abb.com/drives/services/upgrades-and-retrofits

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