



| MB Cap Ultra

- | Safe
- | Intelligent
- | Cost-Effective



SYSTEM AVAILABILITY

MB Cap Ultra buffers voltage drops in a safe, intelligent and cost-effective way.

MB Cap Ultra buffer modules can be integrated into almost any new or existing power supply system. They can communicate with PLCs or industrial PCs through remote alarm contacts or USB interfaces.

This allows intelligent reactions to changes in the operating modes.



| SAFE, INTELLIGENT, COST-EFFECTIVE – MB CAP ULTRA

Voltage fluctuations are a common problem in industrial and commercial environments. They occur more often since power distribution systems are becoming more complex. Voltage fluctuations have considerable consequences: Production processes are interrupted, machines stop working, systems have to be reconfigured. All this costs time and money. In the worst case scenario, a system shut down can cause data loss and failures in machines and systems.

Murrelektronik's MB Cap Ultra modules are buffer modules that ensure a stable power supply guaranteeing secure industrial processes. They store energy and bridge voltage fluctuations from 38 seconds at 10 A up to several minutes at 1 A.

With MB Cap Ultra, Murrelektronik offers a new product portfolio of buffer modules. They are equipped with integrated ultra capacitors instead of lead batteries like conventional uninterruptible power supplies (UPS) do. This makes them maintenance-free and reduces the hazards associated with handling batteries. Because the batteries never need to be changed, MB Cap Ultra is cost-effective.



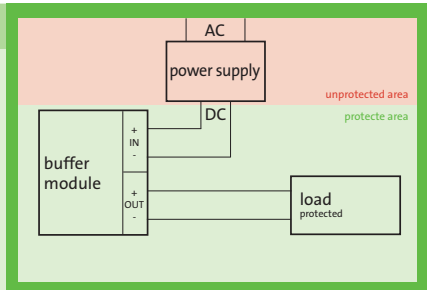
YOUR BENEFITS

- **Lifetime maintenance free by using capacitors**
- **Cost-efficient – no extra costs since you don't have to change the batteries**
- **Safely buffered – buffer up to 38 seconds with full load (10A)**
- **System flexibility for your individual applications**
 - Long buffer time MB Cap Ultra single module
 - Longer buffer time with expansion module
 - Longer buffer time due to cascading
 - Longer buffer time due to selective protection of the most critical loads
- **Safe, intelligent shutdown of industrial PCs**
 - Avoids data loss from destruction
 - Prevents damages to PLC/PC, machines and installations

APPLICATION TYPES

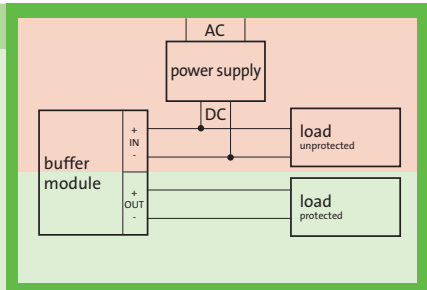
APPLICATION 1 buffered

- Complete load is buffered
- All loads are protected



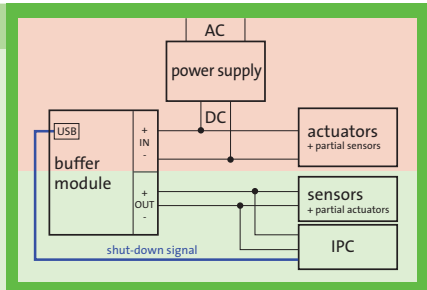
APPLICATION 2 buffered and unbuffered

- The load can be split into protected and unprotected areas
- Only critical loads are buffered



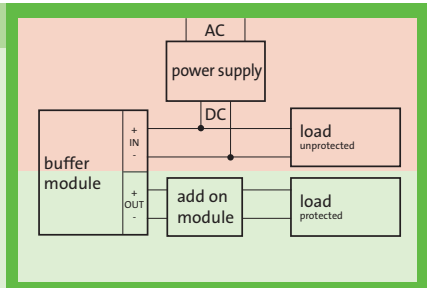
APPLICATION 3 Safe system shutdown

- IPC/PLC and critical sensors and actuators are buffered
- Uncritical actuators and sensors are not buffered



APPLICATION 4 extended buffering

- The load can be split into protected and unprotected areas
- *Increased* buffering of critical loads



MB CAP ULTRA CONTROL SOFTWARE

With the MB Cap Ultra Control software you can select safe and intelligent shutdowns of connected industrial PCs and intelligently restart the complete system. The shutdown parameters and the required control settings are selected with a user-friendly software-user-interface.



- Prevents downtime and damages caused by uncontrolled process stops
- Prevents data loss
- Prevents damages to PLC/PC, machines and installations
- Increases the life of system components
- Savings in maintenance and service

TECHNICAL DATA

	MB Cap Ultra 20/24 16s *	MB Cap Ultra 10/24 38s *	MB Cap Ultra 3/24 7s	MB Cap Ultra Exp. module 3/24 12s	MB Cap 20/24 0.2s
Art.-No.	85468	85467	85460	85462	85394
Input voltage	24 V DC	12V/24V DC	24 V DC	24V DC	23...30 V DC
Output voltage	24 V DC	12V/24V DC	24 V DC	24V DC	22...28 V DC
Max. output current	20A	10A	3A	3A	20A
Buffering time	16 sec/20A > 5min/1A	38 sec/10A > 6 min/1A	7 sec/3A 21 sec/1A	12 sec/3A 36 sec/1A	0.2 sec/20A 4 sec/1A

Accessories

Art.-No.	4000-68000-9030054	4000-68000-9030055	4000-67000-0676425
Description	USB cable form A on B, 2, male/male	USB cable form A on B 5, male/male	USB repeater cable 10m, 2x USB (form A) male/male

* MB Cap Ultra Control Software and manual are available to download under www.murrelektronik.com

MB CAP OVERVIEW

Load current	Buffer time Seconds								Minutes							
	0.2	0,5	1	4	7	16	21	38	1	2	4	3	5	6	7	8
1 A	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
3 A	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
5 A	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
10 A	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
20 A	●	●	●	●	●	●	●	●	●	●	●	●	●	●		

● MB Cap 20 A/0.2 sec

● MB Cap Ultra 3 A/7 sec

● MB Cap Ultra 10 A/38 sec

● MB Cap Ultra 20 A/16 sec



MB Cap Ultra 20/24 16s

- Buffer time 16s at 20A load
- 24 V input/output voltage
- Remote alarm contact and USB interface
- Safe, intelligent industrial PC shutdown
- Selectable shutdown parameters
- Intelligent, automatic industrial PC restart after shutdown
- Lifetime maintenance-free – no batteries required
- Longer buffer time with expansion module



MB Cap Ultra 10/24 38s

- Buffer time 38s at 10A load
- 12 or 24 V input/output voltage
- Remote alarm contact and USB interface
- Safe, intelligent industrial PC shutdown
- Selectable shutdown parameters
- Intelligent, automatic industrial PC restart after shutdown
- Lifetime maintenance-free – no batteries required
- Spring clamp terminals for tool free wiring



MB Cap Ultra 3/24 7s

- Buffer time 7 s at 3A load
- 24 V input/output voltage
- Remote alarm contact
- Safe PLC shutdown
- Lifetime maintenance-free – no batteries required
- Spring clamp terminals for tool free wiring
- Longer buffer time with expansion module



MB Cap Ultra Expansion Module 3/24 12s

- System expansion by 12s buffer time at 3A load per module
- 24 V input/output voltage
- Cascading several expansion modules increases system flexibility
- Convenient expansion of existing systems
- Quick, tool free wiring with spring clamp terminals
- Lifetime maintenance-free – no batteries required



MB Cap 20/24 0.2s

- Lifetime maintenance-free – no batteries required
- Bridges 80% of all mains failures
- Sufficient time for safe shutdown of loads
- Buffered and unbuffered loads possible
- Selectable buffer mode
- Removable terminals – wiring can be changed during operation without disassembling
- Unlimited parallel connection
- Two color LEDs
- Small width and volume
- Unlimited buffer time
- 2 remote alarm contacts



Murrelektronik GmbH | Falkenstraße 3, D-71570 Oppenweiler | P.O.Box 1165, D-71567 Oppenweiler
Phone +49 7191 47-0 | Fax +49 7191 47-130 | info@murrelektronik.com | www.murrelektronik.com



The information in this brochure has been compiled with the utmost care. Liability for the correctness, completeness and topicality of the information is restricted to gross negligence.