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**MURR**  
**ELEKTRONIK**

*stay connected*



| MB Cap Ultra

| Safe

| Intelligent

| Economical



# MB CAP ULTRA

Power Backup the Simple Way

# SAFE, INTELLIGENT, ECONOMICAL

## MB CAP ULTRA



### | STABLE POWER SUPPLY – SECURED PROCESSES

Voltage drops are a common problem in industrial and commercial environments. They occur with greater frequency since power-distribution systems are becoming increasingly 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 breakdown can cause data loss and failure of machines and systems.

The Murrelektronik modules of the MB Cap Ultra series are buffer modules that ensure a stable power supply, thus guaranteeing secure industrial processes. They store energy and bridge voltage fluctuations from up to 38 seconds with 10 A or for several minutes with 1 A.

With MB Cap Ultra Murrelektronik offers a new product portfolio of buffer modules. They are equipped with integrated ultra capacitors instead of using lead batteries as conventional uninterruptible power systems (UPS) do. This makes them maintenance-free. As MB Cap Ultra does not require changing batteries it provides an economic benefit.

## SYSTEM AVAILABILITY

### – MB CAP ULTRA BUFFERS VOLTAGE DROPS IN A SAFE, INTELLIGENT, AND ECONOMICAL WAY



MB Cap Ultra buffer modules can be integrated into almost any new and existing power supply system. They can communicate with PLC respectively industrial PCs via signal contacts respectively a USB interface. This allows reacting intelligently to changes in the operating mode.

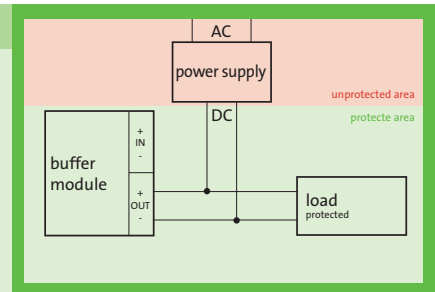
## YOUR BENEFITS

- **lifetime maintenance-free – low operating costs**
- **cost -efficient – no extra costs respectively no change of batteries**
- **safely buffered – buffer time up to 38 seconds at full load (10A)**
- **system flexibility for your individual applications**
  - long buffer time MB Cap Ultra single module
  - longer buffer time with extension module
  - longer buffer time due to cascading
  - longer buffer time due to selective protection of the most critical consumers
- **safe, intelligent shut-down of industrial PCs**
  - avoids data loss due to destruction
  - prevents damages to PLC/PC, machines and installations

## APPLICATION TYPES

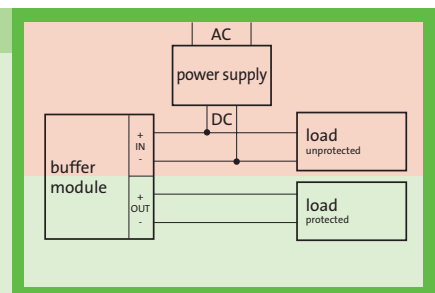
### APPLICATION 1 buffered

- buffer module in parallel to power supply and load
- complete load is buffered



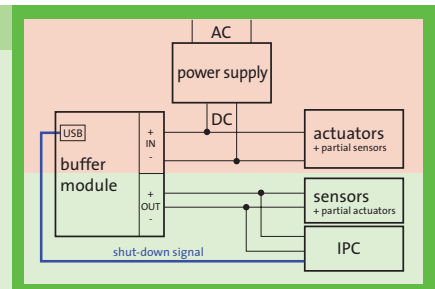
### APPLICATION 2 buffered and unbuffered

- load can be split into protected and unprotected areas
- only critical consumers are buffered



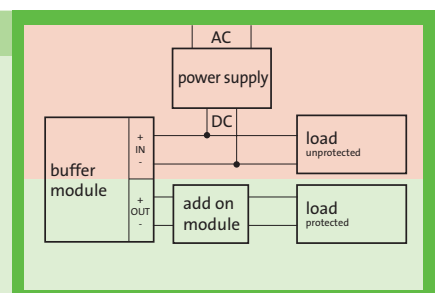
### APPLICATION 3 safe system shut-down

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



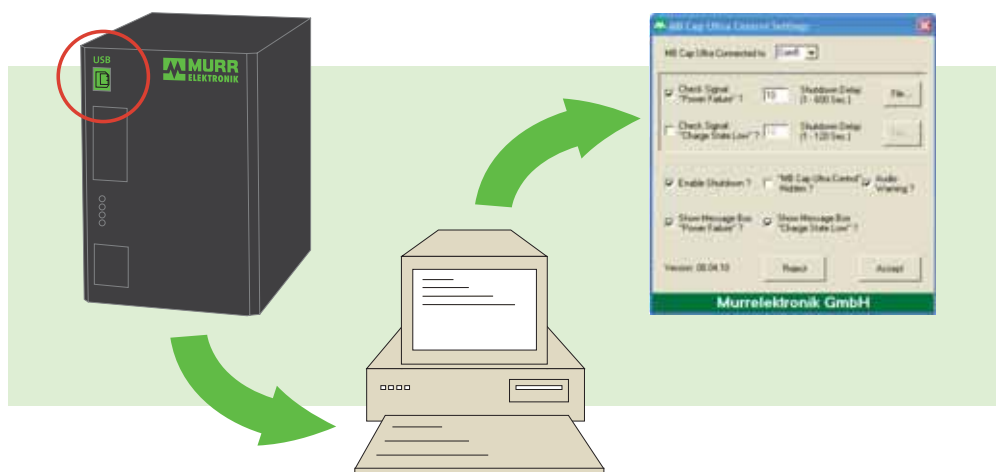
### APPLICATION 4 4 extended buffering

- load can be split into protected and unprotected areas
- increased buffering of critical consumers



## MB CAP ULTRA CONTROL SOFTWARE

The MB Cap Ultra Control software allows to select safe and intelligent shut-downs of connected industrial PCs and an intelligent re-start of the complete system. The shut-down parameters and the required control settings are selected by means of a user-friendly software-user-interface.



- prevents downtime and damages caused by an uncontrolled process stop
- prevents data loss and data corruption
- prevents damages to PLC/PC, machines and installations
- increased life of the system components
- savings in maintenance and service

## TECHNICAL DATA

	MB Cap Ultra 10/24 38s *	MB Cap Ultra 3/24 7s	MB Cap Ultra Add-On 3/24 12s	MB Cap 20/24 0,2s
<b>Art-No.</b>	<b>85467</b>	<b>85460</b>	<b>85462</b>	<b>85394</b>
Input voltage	12V/24V DC	24 V DC	24V DC	23..30 V DC
Output voltage	12V/24V DC	24 V DC	24V DC	22...28 V DC
Max. output current	10A	3A	3A	20A
buffer time	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
<b>Accessories</b>				
<b>Art-No.</b>	<b>4000-68000-9030054</b>	<b>4000-68000-9030055</b>	<b>4000-67000-0676425</b>	
Description	USB cable form A on B, 2m, male/male	USB cable form A on B, 5m, male/male	USB-Repeater cable 10m, 2x USB (Bf. A) male/male	

\* The MB Cap Ultra Control Software and the manual are available for download under [www.murrelektronik.com](http://www.murrelektronik.com)



#### MB Cap Ultra 10/24 38s

- buffer time 38s at 10A load
- 12 or 24 V input /output voltage
- signal contact and USB interface
- safe, intelligent shut-down of industrial PCs
- selectable shut-down parameters
- intelligent, automatic re-start of the industrial PCs after shut-down
- lifetime maintenance-free – without battery
- spring clamp terminals for tool-less wiring



#### MB Cap Ultra 3/24 7s

- buffer time 7s at 3A load
- 24 V input /output voltage
- signal contact
- safe shut-down of PLC
- lifetime maintenance-free – without battery
- spring clamp terminals for tool-less wiring



#### MB Cap Ultra extension module 3/24 12s

- extension of systems by 12s buffer time at 3A load per module
- 24 V input /output voltage
- cascading several extension modules increases system flexibility
- convenient extension of existing systems
- quick, tool-less wiring by spring clamp terminals



#### MB Cap 20/24 0,2s

- maintenance-free => no operating costs
- bridges 80% of all mains failures
- sufficient time for a safe shut-down of consumers
- allows buffered and unbuffered loads
- selectable buffer mode
- withdrawable terminals – allows changing the wiring during operation without disassembly
- unlimited parallel connection
- two color LED
- small width and volume
- unlimited buffer time
- 2 signal contacts



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