



BUFFER UNIT

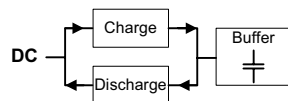
- Buffering with electrolytic capacitors instead of lead batteries
- Buffering of 48V loads
- Minimum hold-up time 0.1s at 20A and 0.2s at 10A
- Longer hold-up time at lower loads
- Clear status indication by status LED and signaling terminals
- Quick-connect spring-clamp terminals
- 3 Year warranty

1. GENERAL DESCRIPTION

The buffer unit is a supplementary device for regulated DC48V power supplies. It buffers load currents during typical mains faults and load peaks.

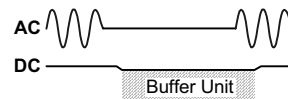
Working principle

In times when the power supply provides sufficient voltages, the buffer unit stores energy in integrated electrolytic capacitors. In case of mains voltage fault, this energy is released again in a regulated process.



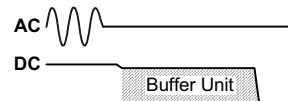
Bridges mains faults without interruption

Statistic show that 80% of all mains fault lasts less than 0.2s. These mains faults are completely bridged by the buffer unit. This increases the reliability of the system as a whole.



Extended hold-up time

Once mains power fails or is switched off, the buffer unit will continue to provide the load current for a defined period of time. Process data can be saved and processes can be terminated before the DC power switches off. Controlled restarts are subsequently possible.

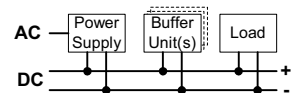


2. SHORT-FORM DATA

Rated voltage	DC 48V	
Voltage range	48-56V	
Output voltage	45V or $V_{IN} - 2V$	Buffer mode select with jumper
Output current	0 to 20A	
Hold-up time	min 0.1s	45V, 20A
	typ 0.15s	45V, 20A
	min 13.4s	45V, 0.1A
	typ 21s	45V, 0.1A
Charging current	max 500mA	
Charging time	typ. 21s	
Input current	typ 40mA	standby mode
Power dissipation	typ 1.9W	standby mode
Temperature range	-25°C to +70°C operational	
Dimensions	64x124x102mm	WxHxD

Easy to handle, expandable and maintenance-free

The buffer unit does not require any control wiring. It can be added parallel to the load circuit at any given point. Buffer units can be switched in parallel to increase the output ampacity or the hold-up time.



3. ORDER NUMBERS

Buffer Unit	UF20.481	48V, 20A, 100ms
Accessory	ZM1.WALL	Wall mounting bracket
	ZM14.SIDE	Side mounting bracket
	XF-1x4s/270-60	Mating connector, Part of derlivery

4. MARKINGS

