

Power supply with integrated DC UPS



- Power supply and DC UPS integrated into a single compact device
- Simplified programming via front microswitches
- Programmable shutdown option from 30 seconds to 60 minutes
- Ability to start the system in battery mode
- Deep discharge protection
- Quick connections via push-in clamps
- Compact size
- Ideal for applications where service continuity is essential (industrial automation, process control, alarm systems and remote control))

24 Vdc

Output voltage
Adjustable range 21-27 Vdc

20 A

Continuous current
Total power 480 W

1.2–100 Ah

Battery capacity
Maximum allowed @ 24 Vdc

Versatile Power Supply

- Input compatible with single-phase, two-phase and three-phase networks
Wide power supply range (185-550 Vac)
- Surge protection included

Advanced Battery Management

- Supports lead-acid batteries from 1.2Ah up to 100Ah
- Adjustable charging current 0.18-10°
- Deep discharge protection

Intelligent Monitoring

- Status indication via LED (AC OK, BATT, ALARM)
- Alarm contacts for remote supervision of power and battery conditions

Code	XCSU4480W024VAA
Type	CSU4-480W/024V/AA
INPUT TECHNICAL DATA	
Input rated voltage	1-2-3x 230-400-500 Vac
Input voltage AC	185...550 Vac (derating $U_{in} < 200$ Vac)
Input voltage DC	270...770 Vdc (derating $U_{in} < 270$ Vdc)
Frequency	50-60 Hz
Current consumption	2.32 A (230 Vac) / 0.8 A (400 Vac)
Inrush peak current	< 35 A @ full load (230 Vac) / < 50 A @ full load (400 Vac)
Power factor	> 0.9
Internal protection fuse	2x3.15 A
External protection on AC line	MCB: 2-3x 6 A C-curve / 2-3x T 6.3 A
OUTPUT TECHNICAL DATA	
Output voltage range	24 Vdc
Output adjustable range	21...27 Vdc
Continuous current	20 A
Status indication	LED "AC OK", LED "BATT", LED "ALARM"
Alarm contact	2 relays (AC OK, BATT OK)
Battery type	Lead-Acid
Battery capacity	max. 100 Ah (24 Vdc)
Charging current	0,18...10 A
Battery disconnection voltage	≤ 18 Vdc ± 0.5 V
Protection	Short-circuit / overload / battery deep discharge / overtemperature / 30 A replaceable fuse / battery polarity inversion / buffer timer
GENERAL TECHNICAL DATA	
Operating temperature range	-20...+70°C
Input / output isolation	3 kVac / 60 s (SELV output)
Input / ground isolation	1.5 kVac / 60 s
Output / ground isolation	0.5 kVac / 60 s
Safety Standard	EN61010-1
EMC Standard	EN 55032, EN 61000-3-2, EN 61000-3-3, EN 55035, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11
Overvoltage category / pollution degree	II / 2
Protection degree	IP20
Connection terminal	4mm ² / 1.5mm ² push-in
Housing materia	aluminium
Dimensions (LxHxD)	99x140x169 mm
Approximate weight	1,85 kg
Mounting information	Vertical on a rail, 10 mm from adjacent components
APPROVALS AND MARKINGS	

Product availability starting October 2025
Contact our CUSTOMER CARE team for more information.

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