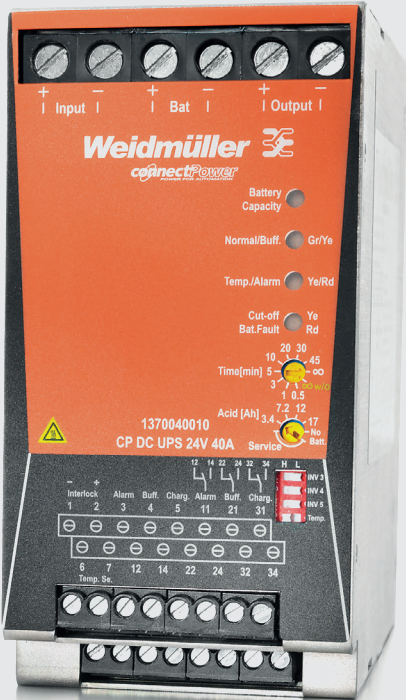


DC-UPS uninterruptible power supply

Safe energy in automation



DC-UPS uninterruptible power supply

Safe energy in automation

Bridge power failures of up to 30 minutes at 40 A with our uninterruptible power supply solutions. Let's connect.

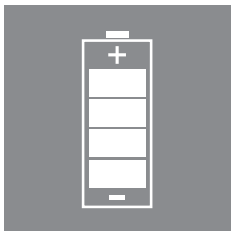
In automation, a highly reliable 24 V power supply avoids the costly machinery breakdowns caused by power outages.

Our maintenance-free buffer modules are recommended for handling short-time interruptions of up to several 100 ms and have lifetime service of up to ten years, depending on the application. Longer power outages can be bridged out with our uninterruptible power supply unit, combined with a battery module. This module provides power up to 40 A for 30 minutes or 1 A for 30 hours, depending on your needs. The temperature-compensated charging characteristic curve guarantees a long service life for the battery.

Customisation makes them applicable for multiple types of operation. Let's connect.

Long battery service life

The temperature-compensated characteristic charge curve ensures the best charge for the battery. This maintains the battery's long service life.



Can be used around the world

International approvals (cURus, cULus) and TÜV certification facilitate the use of these products around the world, and in different applications.



Time saving

The three additional active 24 V DC transistor outputs simplify cabling and save time.



Space saving

The ability to mount the UPS components side-by-side in only 66 mm width saves space in the electronics cabinet.



Create your own, individual power supply solution

The PRO-H and PRO-M power supply units with diverse add-on modules meet nearly every requirement for durable power supplies.

Quick error analysis

The charging level indicator and the status and error indicators facilitate rapid error analysis.



Buffers around 500 ms

You can reliably bridge short power interruptions of several 100 ms with the maintenance-free buffer module.



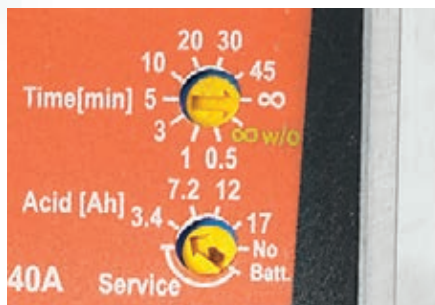
Versatile battery modules of 1.3 to 17 Ah

The battery modules are equipped with maintenance-free AGM VRLA batteries. An integrated temperature sensor ensures the constant, accurate charging of the battery.



Flexible application

Multiple operation modes optimise the use of battery power and facilitate its flexible application.



Uninterruptible power supplies (UPS)

Uninterruptible power supplies (UPS)	Overview	B.2
	UPS control unit	B.4
	Battery modules	B.6
	Buffer modules	B.8

Uninterruptible power supplies

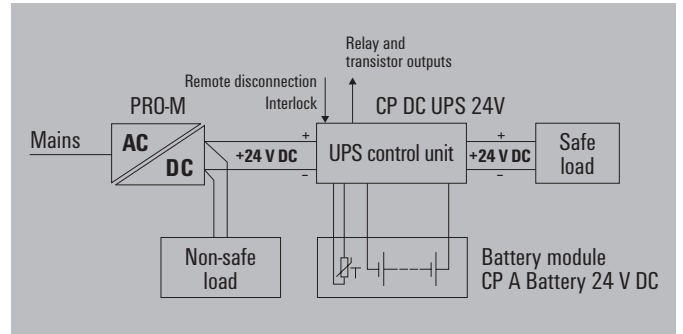
Weidmüller's uninterruptible power supplies reliably protect 24 V DC consumers from voltage drop-outs and dips, such as those that could occur as a result of mains faults. These products therefore play a key role in increasing systems availability.

The buffer module is the perfect solution for bridging short-term power supply failures or dips of up to 100 ms. The capacitor-based technology enables maintenance-free operation, depending on the application, of up to 10 years.

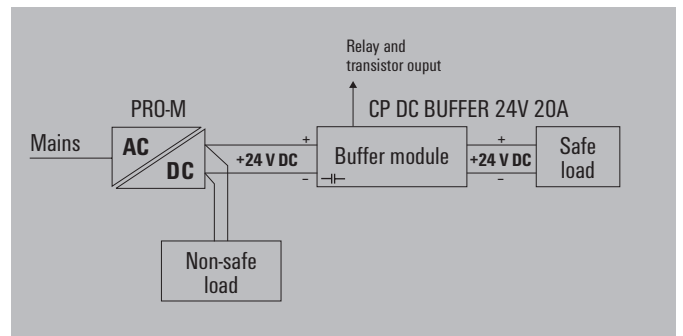
The UPS control unit, together with the accompanying battery module and the power supply, form a complete DC UPS system with support times in minutes or hours. The modular construction allows for the overall load to be distributed into non-safe and safe load circuits, such that often a smaller UPS can be designed.

A huge variety of operating types are available to suit the particular application precisely. A remote input to block battery operation, as well as multiple signal outputs, enable remote operation of the UPS.

UPS with battery module

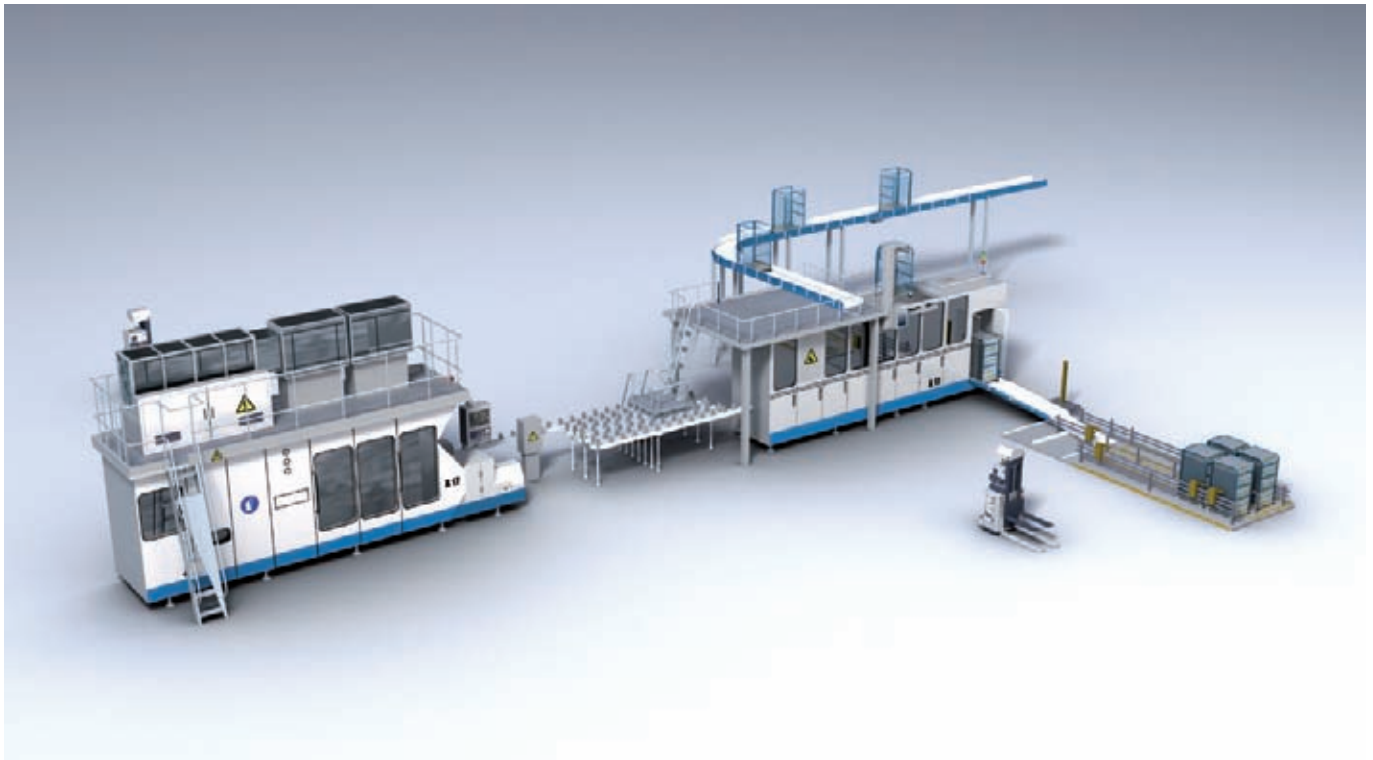


UPS with buffer module



Can your facility afford to experience a power failure? Allow us to connect you so that you are safe from failure and downtime.

Let's connect.



It is critical to safeguard a facility's power supply in the event of an outage. You cannot do without the important signals from the field, which serve to control the entire process. In addition, you also need to monitor a whole range of functions and performance parameters for your facility. Our highly modular power supply concept will support you in the practical fulfilment of all your requirements. At the same time, we will also familiarise ourselves with your future requirements and provide you with an individual, tailor-made solution, with components that are precisely aligned to work with one another.

For a continual, lasting power supply and clean control voltage, we use redundant circuits, selective short-circuit solutions, battery reservoirs and DC/DC converters. And because lightning and power surges can put an uninterrupted power supply in a production facility at risk, we also provide lightning and overvoltage protection. The VPU series provides unrestricted operation of power supplies and automation devices such as sensors, actuators and control units. The subsequent availability of the power supply means that all devices will restart in a controlled manner. Let's connect.



PRO-M

- Used to save space in automation technology
- Individual modulation of the output power
- Up to 5 devices can be switched directly, in parallel
- Optional diode modules with fault signalling
- Expanded temperature range -25 °C to 70 °C

UPS control unit

- Different status relays for status monitoring
- Direct switchover to battery operation in the event of malfunction
- Automatic reconnection to load when power recovers
- Long battery life due to integrated deep discharge protection
- Optimised charging feature

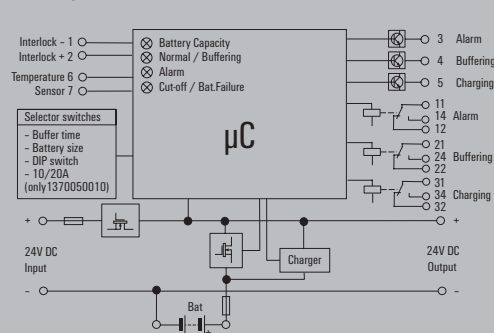
- Two 24 V models in 10 A/20 A and 40 A
- Temperature-compensated charging feature for long battery life
- Integrated battery diagnostics including continuous availability test
- Status relay and additional transistor outputs for remote monitoring
- Convenient LED displays for easy error analysis



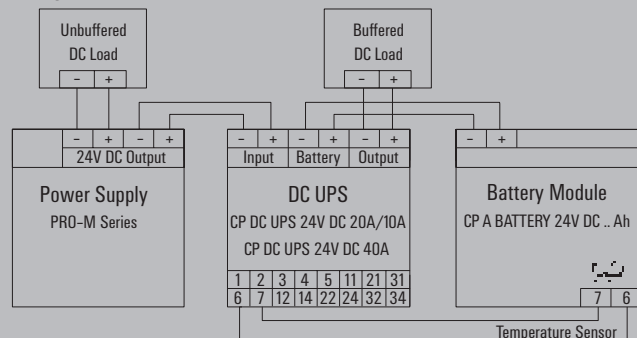
Technical data

Indication	
Status relay (max.load 30 V AC/DC 0.1 A)	Fault (alarm), battery operation (buff.), charging (charg.)
Transistor outputs (24 to 27 V DC max. load 150 mA)	Fault (alarm), battery operation (buff.), charging (charg.)
LED status indicator	Three-colour LED: battery capacities > 85 % green, > 40 % yellow, > 20 % red, < 20 % red (flashing) Green/yellow LED: normal / buffering Yellow/red LED: temperature alarm / alarm Yellow/red LED: switch-off / battery fault
General technical data	
Ambient temperature (operational)	-25 °C...+70 °C
Storage temperature	-40 °C...+85 °C
Max. perm. air humidity	5...95 %
Protection degree	IP 20
Class of protection	3
Pollution severity level	2
Overvoltage category	III
Insulation voltage input/output to housing/ground	1300 V DC 1 min (typetest)
MTBF	> 500,000 hours acc. to IEC 1709
Protection against reverse voltages from the load	32...34 V DC
Parallel connection option	Yes, only with diode module for redundancy
Housing version	Metal, corrosion resistant
Mounting position, installation notice	Horizontal on mounting rail TS35, 50 mm above and below Space for free movement of air
Overload protection	Yes
Short-circuit protection	Yes
EMC / shock / vibration	
Interference emission	Acc. to EN55022 Class B
Interference immunity tests	Acc. to EN61000-4-2 (ESD), EN61000-4-3 and EN61000-4-8 (fields), EN61000-4-4 (burst), EN61000-4-5 (surge), EN61000-4-6 (conducted), EN61000-4-11 (dips)
Resistance against vibration and shock	Acc. to IEC60954 Vibration: 2.3 g, Acc. to IEC60068-2-31 shock: 30 g in all directions
Electrical safety (applied standards)	
Electrical equipment of machines	Acc. to EN60204
Safety transformers for switch-mode power supplies	Acc. to EN61558-2-17
Machinery with electronic equipment	Acc. to EN50178 / VDE0160
Extra-low voltage protection	SELV acc. to EN60950, PLEV acc. to EN60204

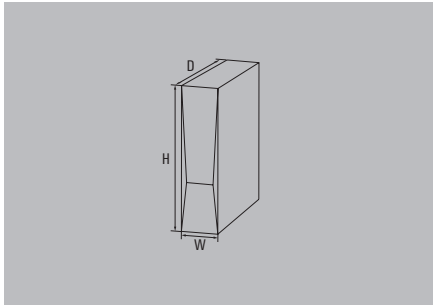
Block diagram



Cabling



UPS control unit



Technical data

Input	
Rated input voltage	24 V DC
Input voltage range	20...30 V DC
Rated input voltage (up to 60 °C)	≤ 13 A (for 10 A) ≤ 23 A (for 20 A)
Input current, max. (to 45 °C)	≤ 15 A (for 10 A) ≤ 27 A (for 20 A)
Input fuse	Yes, 30 A
Standby current (without battery)	max. 200 mA
Standby current (with fully charged battery)	max. 0,5 A
Reverse polarity protection	Yes
Output	
Rated output voltage	24 V DC
Output voltage, normal operation (I _{max})	V _o = V _{in} - 0,2 V
Output voltage, battery operation (I _{max})	V _o = V _{in} - 0,3 V
Rated output current (up to 60 °C)	10 A / 20 A
Continuous output current (up to 70 °C), derating from 60 °C	7,5 A / 15 A
Continuous output current (up to 45 °C)	12 A / 24 A
Power Boost@24 V DC, 60 °C	12 A / 24 A for 1 min, ED = 5 %
Integrated battery charger	
Charging feature	IU characteristic curve
Charging voltage (temperature compensated)	27,48 V @ 20 °C
Temperature coefficient	- 48 mV / °C
Charging current	0,15 CA
Battery availability test	Yes, each minute
Battery module	
Rated voltage	24 V DC
Storage medium (AGM battery)	1,3 Ah, 3,4 Ah, 7,2 Ah, 12 Ah, 17 Ah (selectable, with rotary switch)
Parallel connection option	Yes, max. 2
Operating elements and control inputs	
Output current selector switch	10A / 20A
Battery in Ah selector switch	1,3 / 3,4 / 7,2 / 12 / 17 / No Battery / Service
Buffer times in minutes selector switch	0,5 / 1 / 3 / 5 / 10 / 20 / 30 / 45 / ∞ / ∞ w/0
DIP switch	Inversion of the transistor outputs; operation without temperature sensor
Remote disconnection (Interlock)	Yes
Temperature sensor connection	Yes, for NTC 10 KΩ
General data	
Buffer times	Depending on the connected battery (adjustable)
Efficiency	≥ 98 % Normal operation, battery charged ≥ 96 % Normal operation, battery charging ≥ 98 % Battery operation
Power loss	<10 W
Height x width x depth	130 / 66 / 150 mm
Weight	0,98 kg
Approvals	
CE, TÜV; Pending: cURus, cULus, GL	
Connection data	
Conductor connection system	Screw connection
Wire cross-section, rigid mm ² (min./max.)	0,5/16
Wire cross-section, flexible mm ² (min./max.)	0,5/16
Wire cross-section, AWG/kcmil (min./max.)	26/6
Stripping length (mm)	10
Tightening torque range (NM)	1,2 ... 1,5

Ordering data

Type	Qty.	Order No.
CP DC UPS 24 V 20 A/10 A	1	1370050010

CP DC UPS 24V 20A/10A



Rated input voltage	24 V DC
Input voltage range	20...30 V DC
Rated input voltage (up to 60 °C)	≤ 13 A (for 10 A) ≤ 23 A (for 20 A)
Input current, max. (to 45 °C)	≤ 15 A (for 10 A) ≤ 27 A (for 20 A)
Input fuse	Yes, 30 A
Standby current (without battery)	max. 200 mA
Standby current (with fully charged battery)	max. 0,5 A
Reverse polarity protection	Yes
Output	
Rated output voltage	24 V DC
Output voltage, normal operation (I _{max})	V _o = V _{in} - 0,2 V
Output voltage, battery operation (I _{max})	V _o = V _{in} - 0,3 V
Rated output current (up to 60 °C)	10 A / 20 A
Continuous output current (up to 70 °C), derating from 60 °C	7,5 A / 15 A
Continuous output current (up to 45 °C)	12 A / 24 A
Power Boost@24 V DC, 60 °C	12 A / 24 A for 1 min, ED = 5 %
Integrated battery charger	
Charging feature	IU characteristic curve
Charging voltage (temperature compensated)	27,48 V @ 20 °C
Temperature coefficient	- 48 mV / °C
Charging current	0,15 CA
Battery availability test	Yes, each minute
Battery module	
Rated voltage	24 V DC
Storage medium (AGM battery)	1,3 Ah, 3,4 Ah, 7,2 Ah, 12 Ah, 17 Ah (selectable, with rotary switch)
Parallel connection option	Yes, max. 2
Operating elements and control inputs	
Output current selector switch	10A / 20A
Battery in Ah selector switch	1,3 / 3,4 / 7,2 / 12 / 17 / No Battery / Service
Buffer times in minutes selector switch	0,5 / 1 / 3 / 5 / 10 / 20 / 30 / 45 / ∞ / ∞ w/0
DIP switch	Inversion of the transistor outputs; operation without temperature sensor
Remote disconnection (Interlock)	Yes
Temperature sensor connection	Yes, for NTC 10 KΩ
General data	
Buffer times	Depending on the connected battery (adjustable)
Efficiency	≥ 98 % Normal operation, battery charged ≥ 96 % Normal operation, battery charging ≥ 98 % Battery operation
Power loss	<10 W
Height x width x depth	130 / 66 / 150 mm
Weight	0,98 kg
Approvals	
CE, TÜV; Pending: cURus, cULus, GL	
Connection data	
Conductor connection system	Screw connection
Wire cross-section, rigid mm ² (min./max.)	0,5/16
Wire cross-section, flexible mm ² (min./max.)	0,5/16
Wire cross-section, AWG/kcmil (min./max.)	26/6
Stripping length (mm)	10
Tightening torque range (NM)	1,2 ... 1,5

Type	Qty.	Order No.
CP DC UPS 24 V 20 A/10 A	1	1370050010

CP DC UPS 24V 40A



Rated input voltage	24 V DC
Input voltage range	20...30 V DC
Rated input voltage (up to 60 °C)	≤ 43 A
Input current, max. (to 45 °C)	≤ 51 A
Input fuse	Yes, 60 A
Standby current (without battery)	max. 200 mA
Standby current (with fully charged battery)	max. 0,5 A
Reverse polarity protection	Yes
Output	
Rated output voltage	24 V DC
Output voltage, normal operation (I _{max})	V _o = V _{in} - 0,2 V
Output voltage, battery operation (I _{max})	V _o = V _{in} - 0,3 V
Rated output current (up to 60 °C)	40 A
Continuous output current (up to 70 °C), derating from 60 °C	24 A
Continuous output current (up to 45 °C)	48 A
Power Boost@24 V DC, 60 °C	48 A for 1 min, ED = 5 %
Integrated battery charger	
Charging feature	IU characteristic curve
Charging voltage (temperature compensated)	27,48 V @ 20 °C
Temperature coefficient	- 48 mV / °C
Charging current	0,15 CA
Battery availability test	Yes, each minute
Battery module	
Rated voltage	24 V DC
Storage medium (AGM battery)	3,4 Ah, 7,2 Ah, 12 Ah, 17 Ah (selectable, with rotary switch)
Parallel connection option	Yes, max. 2
Operating elements and control inputs	
Output current selector switch	No
Battery in Ah selector switch	3,4 / 7,2 / 12 / 17 / No Battery / Service
Buffer times in minutes selector switch	0,5 / 1 / 3 / 5 / 10 / 20 / 30 / 45 / ∞ / ∞ w/0
DIP switch	Inversion of the transistor outputs; operation without temperature sensor
Remote disconnection (Interlock)	Yes
Temperature sensor connection	Yes, for NTC 10 KΩ
General data	
Buffer times	Depending on the connected battery (adjustable)
Efficiency	≥ 98 % Normal operation, battery charged ≥ 96 % Normal operation, battery charging ≥ 98 % Battery operation
Power loss	<10 W
Height x width x depth	130 / 66 / 150 mm
Weight	1,0 kg
Approvals	
CE, TÜV; Pending: cURus, cULus, GL	
Connection data	
Conductor connection system	Screw connection
Wire cross-section, rigid mm ² (min./max.)	0,5/16
Wire cross-section, flexible mm ² (min./max.)	0,5/16
Wire cross-section, AWG/kcmil (min./max.)	26/6
Stripping length (mm)	10
Tightening torque range (NM)	1,2 ... 1,5

Type	Qty.	Order No.
CP DC UPS 24 V 40 A	1	1370040010

- Maintenance-free lead-acid batteries from 3.4 Ah to 17 Ah
- Integrated temperature sensor for optimal battery charging
- Integrated fuse for reliable activation
- Capacity up to 40 A / 30 min or 1 A / 30 hrs
- Robust metal housing for wall mounting

CP A BATTERY 24V DC 3,4 Ah



CP A BATTERY 24V DC 7,2 Ah



Technical data

Rated voltage	24 V DC
Nominal capacity	3,4 Ah
Max. charging current at 0.15 CA	0,51 A
Fuse (ATO flat blade fuse max. 80 V DC)	25 A
Buffer time	11,3 min @ 10 A 5 min @ 20 A
Max. output current	25 A
Parallel connection option	Yes, max. 2
Series switching capability	No
Temperature sensor	NTC 8 kΩ
General data	
Battery type (maintenance-free battery)	Valve Regulated Lead Acid (VRLA)- Absorbed Glass Mat (AGM)
Battery type Panasonic	UPRW1220P
Lifetime in years (application-dependent)	6...9 @ 20 °C
Ambient temperature	0 °C...+40 °C
Storage temperature	-15 °C...+40 °C
Latest commissioning in months	9
Max. perm. air humidity	5...95 %
Class of protection	III
Protection degree	IP 20
Vibration mounting rail assembly/wall mounting acc. to IEC 68-2-6	0,7 g / 0,7 g
Shock mounting rail assembly/wall mounting acc. to IEC 68-2-27	30 g
Height x width x depth	144 / 108 / 126 mm
Weight	3,6 kg
Approvals	CE, TÜV
Connection data (input/output, signal)	
Screw connection	Pluggable
Wire cross-section, rigid mm ² (min./max.)	0,2/6
Wire cross-section, flexible mm ² (min./max.)	0,25/6
Wire cross-section, AWG/kcmil (min./max.)	24/10
Tightening torque range (Nm)	0,5...0,6

Input/output/battery	Signal
Pluggable	
0,2/6	0,2/1,5
0,25/6	0,2/1,5
24/10	28/16
0,5...0,6	0,2...0,25

Rated voltage	24 V DC
Nominal capacity	7,2 Ah
Max. charging current at 0.15 CA	1,8 A
Fuse (ATO flat blade fuse max. 80 V DC)	2 x 25 A
Buffer time	26,5 min @ 10 A 11,5 min @ 20 A 5 min @ 30 A
Max. output current	50 A
Parallel connection option	Yes, max. 2
Series switching capability	No
Temperature sensor	NTC 8 kΩ
General data	
Battery type (maintenance-free battery)	Valve Regulated Lead Acid (VRLA)- Absorbed Glass Mat (AGM)
Battery type Panasonic	LCR127R2PG
Lifetime in years (application-dependent)	6...9 @ 20 °C
Ambient temperature	0 °C...+40 °C
Storage temperature	-15 °C...+40 °C
Latest commissioning in months	9
Max. perm. air humidity	5...95 %
Class of protection	III
Protection degree	IP 20
Vibration mounting rail assembly/wall mounting acc. to IEC 68-2-6	- / 0,7 g
Shock mounting rail assembly/wall mounting acc. to IEC 68-2-27	30 g
Height x width x depth	155 / 162 / 126 mm
Weight	5,9 kg
Approvals	CE, TÜV
Connection data (input/output, signal)	
Screw connection	Pluggable
Wire cross-section, rigid mm ² (min./max.)	0,2/6
Wire cross-section, flexible mm ² (min./max.)	0,25/6
Wire cross-section, AWG/kcmil (min./max.)	24/10
Tightening torque range (Nm)	0,5...0,6

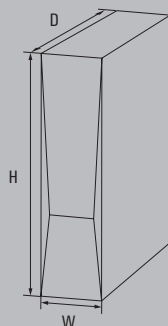
Input/output/battery	Signal
Pluggable	
0,2/6	0,2/1,5
0,25/6	0,2/1,5
24/10	28/16
0,5...0,6	0,2...0,25

Ordering data

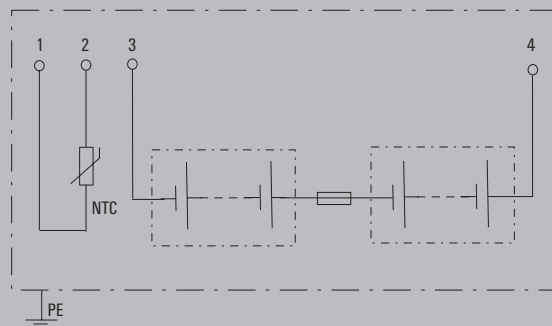
Type	Qty.	Order No.
CP A BATTERY 24V DC 3,4 Ah	1	1251070000

Type	Qty.	Order No.
CP A BATTERY 24V DC 7,2 Ah	1	1251080000

Type	Qty.	Order No.
CP A BATTERY 24V DC 7,2 Ah	1	1251080000



Sensor



CP A BATTERY 24V DC 12 Ah



CP A BATTERY 24V DC 17 Ah



Technical data

Rated voltage
Nominal capacity
Max. charging current at 0.15 CA
Fuse (ATO flat blade fuse max. 80 V DC)
Buffer time

Max. output current
Parallel connection option
Series switching capability
Temperature sensor

General data

Battery type (maintenance-free battery)
Battery type Panasonic
Lifetime in years (application-dependent)
Ambient temperature
Storage temperature
Latest commissioning in months
Max. perm. air humidity
Class of protection
Protection degree
Vibration mounting rail assembly/wall mounting acc. to IEC 68-2-6
Shock mounting rail assembly/wall mounting acc. to IEC 68-2-27
Height x width x depth
Weight
Approvals

Connection data (input/output, signal)

Screw connection
Wire cross-section, rigid mm² (min./max.)
Wire cross-section, flexible mm² (min./max.)
Wire cross-section, AWG/kcmil (min./max.)
Tightening torque range (Nm)

24 V DC
12 Ah
1,8 A
2 x 25 A
51 min @ 10 A
22,7 min @ 20 A
9,2 min @ 30 A
50 A
Yes, max. 2
No
NTC 8 kΩ

Valve Regulated Lead Acid (VRLA)- Absorbed Glass Mat (AGM)
LC-RA1212PG
6...9 @ 20 °C
0 °C...+40 °C
-15 °C...+40 °C
9
5...95 %
III
IP 20
- / 0,7 g
30 g
155 / 229 / 126 mm
9,2 kg
CE, TÜV

Input/output/battery	Signal
Pluggable	
0,2/6	0,2/1,5
0,25/6	0,2/1,5
24/10	28/16
0,5...0,6	0,2...0,25

24 V DC
17 Ah
2,55 A
2 x 25 A
81 min @ 10 A
34,2 min @ 20 A
13,5 min @ 30 A
50 A
Yes, max. 2
No
NTC 8 kΩ

Valve Regulated Lead Acid (VRLA)- Absorbed Glass Mat (AGM)
LC-XD1217APG
10...12 @ 20 °C
0 °C...+40 °C
-15 °C...+40 °C
9
5...95 %
III
IP 20
- / 0,7 g
30 g
178 / 232 / 160 mm
13,4 kg
CE, TÜV

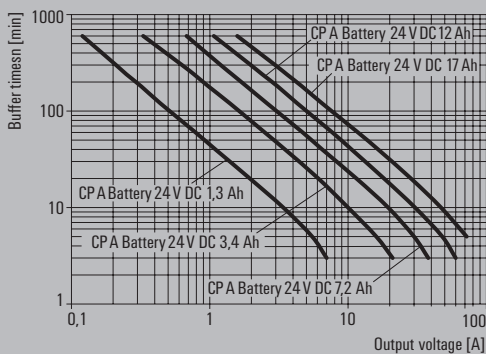
Input/output/battery	Signal
Pluggable	
0,2/6	0,2/1,5
0,25/6	0,2/1,5
24/10	28/16
0,5...0,6	0,2...0,25

Ordering data

Type	Qty.	Order No.
CP A BATTERY 24V DC 12 Ah	1	1251090000

Type	Qty.	Order No.
CP A BATTERY 24V DC 17 Ah	1	1251110000

Buffer times-output voltage curve



- Maintenance-free UPS on capacitor basis with a capacity to support 20 A / 260 ms
- Parallel switching to increase the output current or support time
- Status notification via LED and relay contact

CP DC Buffer 24V 20A

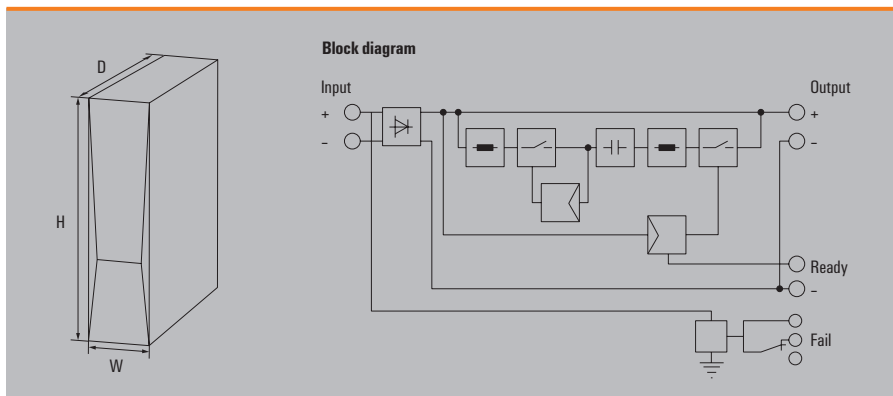


Technical data

Input	
Input voltage	24 V DC (22,5...30 V DC)
Input current	0...22 A
Max. approved input current	Max. 22 A
Surge protection	35 V DC suppressor diode
Output	
Output voltage	24 V DC
Output current	20 A, max. 22 A
Parallel connection option	Yes, without diode module
Overload protection	≥ 22 A (Only at discharge)
Surge protection	31...34 V (Only at discharge)
Status relay (max. load)	Input voltage OK (30 V AC/DC 2 A) Operational (24 V AC/DC 300 mA)
Display	
Operational	LED green: ready
General data	
Efficiency	95 %
Insulation voltage input/output	1 kV
Storage medium	Internal condenser
Buffer times	260 ms bei 20 A, 6 s at 1 A
MTBF	> 500,000 hours acc. to IEC 1709
Ambient temperature	-25 °C...+70 °C
Storage temperature	-40 °C...+85 °C
Max. perm. air humidity	5...95 %
Height x width x depth	130 / 66 / 150 mm
Standards applied	EN50178, EN60950
EMC	EN55011, EN55022, EN55024, EN61000-6-2,-3,-4
Weight	1,15 kg
Approvals	CE, TÜV, cURus, cULus
Connection data	
Conductor connection system	Screw connection
Wire cross-section mm ² (nominal/min./max.)	10/0,3/16 10/0,3/16 4/0,13/6

Ordering data

Type	Qty.	Order No.
CP DC Buffer 24V 20A	1	1251220000



Argentina
Australia
Austria
Azerbaijan
Bahrain
Belarus
Belgium
Bosnia and
Herzegovina
Brazil
Bulgaria
Canada
Chile
China
Colombia
Costa Rica
Croatia
Czech Republic
Denmark
Ecuador
Egypt
Estonia
Finland
France
Germany
Great Britain
Greece
Hong Kong

Hungary
Iceland
India
Indonesia
Iran
Ireland
Israel
Italy
Japan
Jordan
Kazakhstan
Korea
Kuwait
Latvia
Lebanon
Lithuania
Luxembourg
Macedonia
Malaysia
Malta
Mexico
Moldova
Netherlands
New Zealand
Norway
Oman
Pakistan
Peru

Philippines
Poland
Portugal
Qatar
Romania
Russia
Saudi Arabia
Serbia
Singapore
Slovakia
Slovenia
South Africa
Spain
Sweden
Switzerland
Taiwan
Thailand
Tunisia
Turkey
Ukraine
United Arab
Emirates
United States
Uruguay
Uzbekistan
Venezuela
Vietnam

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As experienced experts we support our customers and partners around the world with products, solutions and services in the industrial environment of power, signal and data. We are at home in their industries and markets and know the technological challenges of tomorrow. We are therefore continuously developing innovative, sustainable and useful solutions for their individual needs. Together we set standards in Industrial Connectivity.

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