

# Uninterruptible power supply PC-1024-050-0



Picture shows PC-1024-050-0

## Advantages

Combined power supply with charging and controlling unit
Fast tripping of conventional circuit breakers
Battery modules get detected automatically
Reliable signalling when there is low remaining life expectancy of connected battery modules
Extended life expectancy through temperature controlled battery management
Interface to visualise and adjust relevant data
Reliable supply of industrial PC's

## Applications

The uninterruptible power supply Power Compact contains an economic DC 24V/5A power supply with basic specifications for industrial computer and also a loading and controlling unit for an ideal battery management.

## Standards

Uninterruptible power supply  
to UL 60950, UL 508

Safety:  
EN 60950, EN 60950 (SELV), EN 60204 (PELV)

EMC:  
EN 61000-6-3 (Interference emissions), EN 61000-6-2 (Interference immunity)

## Approvals



UL/CSA 60950 recognised, UL508 listed, Germanischer Lloyd



# Uninterruptible power supply

## PC-1024-050-0

Type	PC-1024-050-0
<b>Electrical data</b>	
<b>Input</b>	
Input rated voltage	100 - 240 Vac
Input voltage range	95 - 264 Vac (120 - 372 Vdc)
AC input derating	-1.5 % / Vac < 110 Vac
DC input derating	-1 % / Vdc < 150 Vdc
Rated frequency range	47 Hz - 63 Hz / 0 Hz
Input rated current (rated load)	1.96 A / 0.95 A (100 / 230 Vac)
Starting current limiter	< 30 A, NTC
Switch-on time	< 200 ms
Input fuse internal	4 A (time-lag)
Recommended back-up fuse (circuit breaker)	6 A, 10 A, 16 A, characteristic B, C
Transient surge voltage protection	Varistor
<b>Output</b>	
Output rated current	5.00 A
Tripping of LS circuit breakers	max. B4
Parallel connection	Only with redundancy module, max. 5 A output current
Serial operation	Yes
Ripple factor	typ. 50 mVss
Output rated voltage	24 Vdc
Over-voltage-protection	typ. 38 Vdc
Rated output voltage (normal mode)	24 Vdc
Rated output voltage (buffer mode)	24 Vdc
Output voltage range (mains operation)	23 - 28.5 Vdc
Output voltage range (battery operation)	Battery voltage - 0.5 V (27.5 - 19 Vdc)
Output voltage limiting (mains operation)	typ. 6.5 A, constant current
Output voltage limiting (battery operation)	typ. 5.5 A
Power losses in mains operation (nominal load, battery charged)	22 W (100 Vac) 17W (230 Vac)
Max. power losses in battery operation (stand-by/nominal load)	3.2 W / 5.2 W
<b>Storage medium</b>	
Remote shutdown	Yes
Buffer period	1, 2, 3, 5, 10, 15, 20 Min, PC-Mode, Maximum, Individual
Type of the storage medium	Accumulator, external
Reverse connection protection	Yes, (fuse in battery module trips)
Charging characteristic	3-stage charging process (IUoU charging characteristic)
Charging current	max. 0.6 A
End-of-charge voltage	26...29,5 V temperature-controlled, adjustable via interface
Check for presence of battery	1 per minute
Check remaining battery life	6 per hour
Deep discharge protection	19 Vdc
Warning threshold, battery almost flat	20.4 Vdc
Recommended battery modules	1.2 - 12 Ah
Parallel connection of battery modules	Yes, max. 3
<b>Signaling</b>	
Status indicator	3 LED green/yellow/red
Isolated group input	max. 30 V / 200 mA current limiting (in 3 separate signal outputs)
Alarm/Bat.Mode/Bat.Charge signal output	Relay, kill switch type, max. 30 V, function adjustable via interface
<b>Approvals</b>	
Approvals	cURus, cULus, GL
<b>Environment</b>	
Ambient temperature	-25 °C ... +70 °C
Storage temperature	-25 °C ... +85 °C
Derating	-3 %/K > +50 °C
Mounting position	horizontal for standard rail DIN TH 35
Type of cooling	natural convection
Required minimum spacing (left/right)	0 mm
Required minimum spacing (over/under)	50 mm
<b>Safety and protection</b>	
Protection index	IP 20
Safety class	I, with PF connection
Resistance to reverse feed max.	35 Vdc
<b>Order numbers</b>	

Type	PC-1024-050-0
<b>Mechanical data</b>	
<b>Terminal and mounting</b>	
Terminals signalling (direct plug-in technology Push-in)	max 2,5 mm <sup>2</sup>
Terminals input (direct plug-in technology Push-in)	max 2,5 mm <sup>2</sup>
Terminals output (direct plug-in technology Push-in)	max 2,5 mm <sup>2</sup>
Terminals storage medium direct plug-in technology Push-in	max. 2,5 mm <sup>2</sup>
<b>Measures and weights</b>	
Weight	0,8 kg

