

# Uninterruptible power supply **PC-1024-050-0**



## Advantages

- Combinated power supply with loading and controlling unit
- Fast triggering of miniature circuit breakers
- Battery modules get detected automatically
- Assists the supply of industrial computers
- Extended life expectancy through temperature controlled battery management
- Interface to visualize and adjust relevant data
- Supports Industrial PCs

## Applications

The interruptible power supply PowerCompact contains an economic DC 24V/5A power supply with basic specifications for industrial computer and also for the loading and controlling unit for an ideal battery management.

## Standards

## Approvals



# 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	85 - 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	Yes, max. 2
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, elektronik
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
Reverse connection protection	Yes, (fuse in battery module trips)
Charging characteristic	3-stage charging process (UoU charging characteristic)
Charging current	max. 0.6
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 display	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>Environment</b>	
Ambient temperature	-25° C ... +70°
Storage temperature	-25° C ... +85° C
Derating	-3 %/K > +50° C
Mounting position	horizontal for standard rail DIN TH 35
Cooling method	natural convection
Required minimum spacing (left/right)	-
Required minimum spacing (over/under)	50 mm
<b>Safety and protection</b>	
Protection index	IP 20
Safety class	I, with PE connection
Resistance to reverse feed max.	35 Vdc
<b>Order numbers</b>	
<b>Order Number</b>	<b>PC-1024-050-0</b>

Type	PC-1024-050-0
<b>Mechanical data</b>	
<b>Input</b>	
Terminals Input	Push-In, max 2.5 mm <sup>2</sup>
<b>Output</b>	
Terminals Output	Push-In, max 2.5 mm <sup>2</sup>
<b>Storage medium</b>	
Terminals Power storage device	Push-In, max 2.5 mm <sup>2</sup>
<b>Signaling</b>	
Terminals signaling	Push-In, max 2.5 mm <sup>2</sup>
<b>Measures and weights</b>	
Weight	0.80 kg
Dimensions W x H x D	60 x 127 x 126 mm

Subjects to change.