

Uninterruptible power supply PC Kombi USV



General Data

Rated input voltage: 100 - 240 Vac
Rated output voltage: 24 Vdc
Rated output current: 5 A
Recommended battery modules: 1.2 - 12 Ah
Ambient temperature: -25 °C to +70 °C
Protection index IP 20

Advantages

Combined power supply with loading 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 (E213214), UL508 listed (E219022) Germanischer Lloyd prepared



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Typ		PC-1024-050-0
Electrical data	Input	
	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
	Output	
	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) 17 W (230 Vac)	
Max. power losses in battery operation (stand-by/nominal load)	3.2 W / 5.2 W	
Storage medium		
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 (UoU 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	
Signaling		
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	
Approvals		
Approvals	cURus, cULus, GL	

1.1

1.2

1.3

2.1

2.2

3.1

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4.0

5.1

5.2



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Electrical data	Typ	PC-1024-050-0
	Environment	
	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
	Cooling method	natural convection
	Required minimum spacing (left/right)	0 mm
	Required minimum spacing (over/under)	50 mm
	Safety and protection	
Protection index	IP 20	
Safety class	I, with PE connection	
Resistance to reverse feed max.	35 Vdc	
Order numbers		
Order Number	PC-1024-050-0	

Mechanical data	Typ	Connections signalling (direct plug-in technology Push-in)	Connections output (direct plug-in technology Push-in)	Connections input (direct plug-in technology Push-in)	Connections storage medium direct plug-in technology Push-in	Weight	Dimension picture (in mm)	A	B	C	D	E	F	G
		PC-1024-050-0	max 2,5 mm ²	max 2,5 mm ²	max 2,5 mm ²	max 2,5 mm ²	0.80 kg	127	63.5	3	60	118.5	126	136

Dimension pictures

