

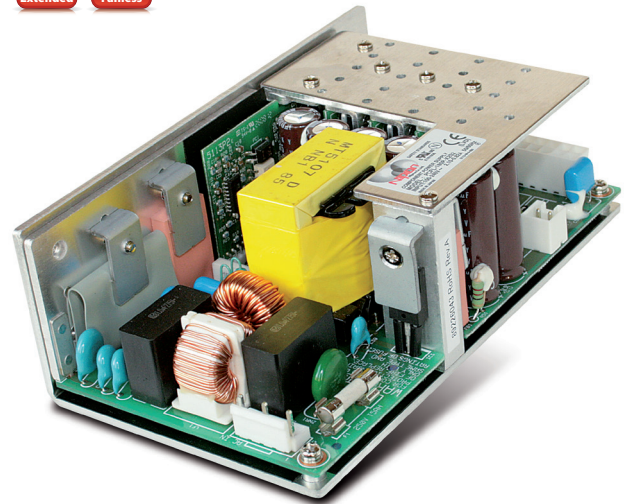
PCFL-180P-X2S2

150 Watt



- **UPS function with NiMH battery pack**
- **No minimum load required**
- **Special voltages possible**

The ATX power supply PCFL-180P-X2S2 uniquely combines the functions of a PC power supply with those of a UPS. Energy is provided by a separate NiMH battery pack in a practical 3.5" format. Upon request it is also available with additional 24 V DC output voltage. A UPS software monitors the supplied system so that operation without user supervision is possible. A fit-form-compatible variation of the PCFL-180P-X2S2 is available with DC input as well.



Technical data	
Input voltage	85...264 V AC (active PFC)
Input frequency	47...63 Hz
Input current	2 A (100 V AC) / 0.9 A (220 V AC)
Efficiency	77 % typ.
Hold up time	16 ms (without battery pack)
Power-Good-Signal	Switch on delay 100...500 ms Switch off delay 1 ms
Protection	Short circuit protection: At each output, switch off, +5 V _{sb} auto-recovery At input: fuse Overvoltage protection: +3.3 V (3.7...4.3 V), +5 V (5.7...6.7 V), 12 V (13.8...15.6 V), +5 V _{sb} (5.7...7 V)
Insulation voltage	Input / Chassis: 1500 V AC for 60 sec. Input / Output: 1500 V AC for 60 sec.
Safety / EMC	CE, EN 60950-1, UL 60950-1
Operating temperature	0...+60 °C
Derating	85...90 V, 80 % load +30...+60 °C 2% / °C fanless, 1.3 % / °C with fan
MTBF	100 000 h
Storage temperature	-20...+70 °C
Operating humidity	10...95 % RH, non-condensing
Dimensions (WxDxH)	93 x 160 x 55 mm ±0.4 mm
Weight (net)	0.85 kg

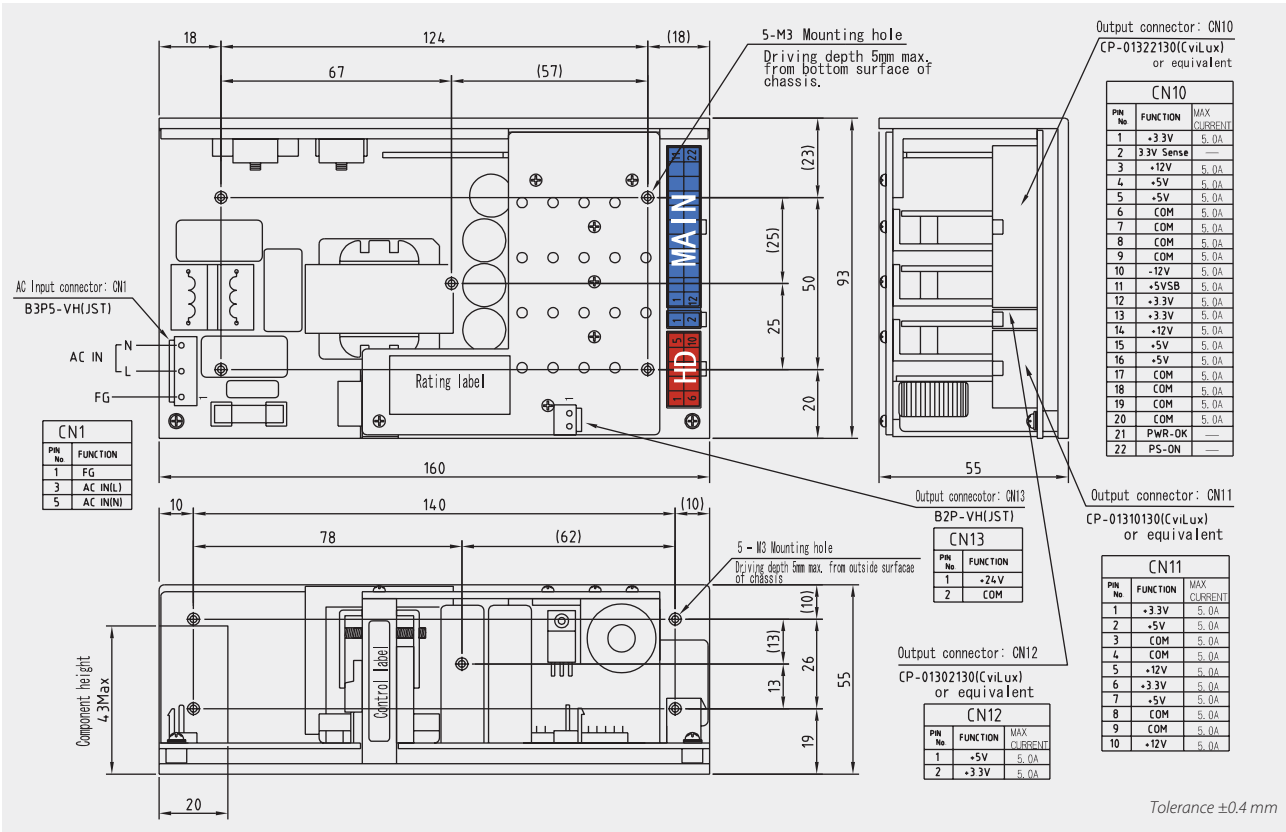
Product specific data	
Vibration	10...55 Hz with 2 G, duration 10 cycles, per x, y, z axis (out of operation)
UPS function	By connection of battery pack BS17A-H24/2.0L

Article No.	Output voltage	Output current min	Output current max	heat sink max	fan max	peak 5 Sek.	Load regulation	Ripple & Noise
PCFL-180P-X2S2	+3.3 V	0 A	10 A	10 A	10 A	10 A	±5 %	50 mV
	+5 V	0 A	10 A	10 A	10 A	10 A	±5 %	50 mV
	+12 V	0 A	7.5 A	8.5 A	10 A	15 A	±5 %	120 mV
	-12 V	0 A	0.3 A	0.3 A	0.3 A	0.3 A	±10 %	120 mV
	+5 V _{sb}	0 A	1 A	1 A	1.5 A	1.8 A	±5 %	50 mV

Max. output power is 90 W without fan, 100 W with heat sink (>1.6 K/W) and 150 W with fan cooling (30 m³/h). Combined output load at +3.3 and +5 V must not exceed 60 W in fanless operation, it must not exceed 70 W for operation with heat sink, and with fan cooling (30 m³/h) it must not exceed 83 W. Ripple and noise was measured by a 20 MHz bandwidth limited oscilloscope with connected 47 µF ceramic capacitor at each output.

This power supply is for assembly purposes only and it must not be operated in unassembled condition. The final assembly has to comply with the valid EMC standards.

Drawing PCFL-180P-X2S2



Optional accessory ▷▷▷ For detailed information please visit our website www.bicker.de and refer to the article number.

Article No.	Description
BS17A-H24/2.0L	NiMH battery pack
RUPS 2000-B1	UPS Management Software (CD-ROM)
CB-PCFL	AC input cable / AWG 18 / ends open / 600 mm
WH-M2022-500-01	PCFD/L-180P / 20 pin ATX connector / 500 mm
WH-PS610-850	3x HD / 2x SATA / 1x FDD cable harness / 850 mm

WH-M2022-500-01:	ATX, 500 mm
	<ul style="list-style-type: none"> ORANGE (+3.3 VDC) ORANGE (+3.3 VDC) RED (+5 VDC) BLACK (COM) RED (+5 VDC) BLACK (COM) GREY (PCK) PURPLE (+5 V_{SB}) YELLOW (+12 VDC) 11 BROWN (+3.3 VDC REMOTE SENSE) 12 BLUE (-12 VDC) 13 BLACK (COM) 14 GREEN (PS-ON) 15 BLACK (COM) 16 BLACK (COM) 17 BLACK (COM) 18 N.C. 19 RED (+5 VDC) 20 RED (+5 VDC)
	<ul style="list-style-type: none"> BLUE (-12 VDC) RED (+5 VDC)

WH-PS610-850:	HD, 550 mm	SATA, 150 mm	SATA, 150 mm
	<ul style="list-style-type: none"> YELLOW (+12V) BLACK (GND) RED (+5V) 	<ul style="list-style-type: none"> 1-3 ORANGE (+3.3 VDC) 4-6 BLACK (GND) 7-9 RED (+5 VDC) 10-12 BLACK (GND) 13-15 YELLOW (+12 VDC) 	<ul style="list-style-type: none"> 1-3 ORANGE (+3.3 VDC) 4-6 BLACK (GND) 7-9 RED (+5 VDC) 10-12 BLACK (GND) 13-15 YELLOW (+12 VDC)
	<ul style="list-style-type: none"> YELLOW (+12V) BLACK (GND) RED (+5V) 	<ul style="list-style-type: none"> YELLOW (+12V) BLACK (GND) RED (+5V) 	<ul style="list-style-type: none"> YELLOW (+12V) BLACK (GND) BLACK (GND) RED (+5V)

CB-PCFL:	AC input cable, 600 mm (ends open)
	<ul style="list-style-type: none"> 5 BLUE (AC Neutral) 4 NC 3 BLACK (AC Line) 2 NC 1 GREEN/YELLOW

Tolerance ±20 mm