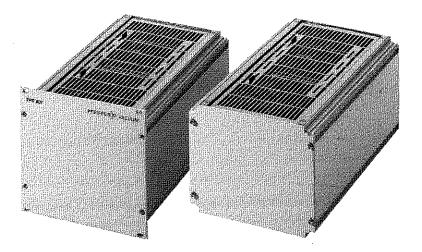
Netzteil Power Supply

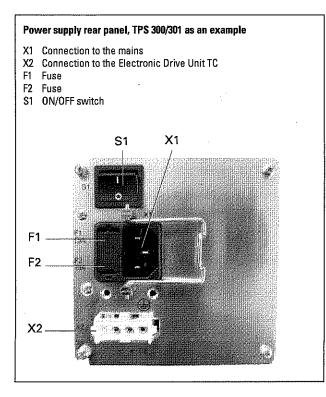


TPS 100 - 600 TPS 101 - 601

PM 800 521 BN/J (0504)



2.1. Main Features



Power supplies are used to supply voltage to Pfeiffer Vacuum turbomolecular pumps with integrated Electronic Drive Units TC.

The output voltage is safely separated from the mains voltage in compliance with the European Industrial Standard EN 60 742.

Power supplies are available in the following versions:

- For wall and standard runner fitting (TPS 100, 150, 200, 300, 600)
- As a 19" insert unit (TPS 101, 201, 301, 601)
- As a 19" insert unit with the Display Control Unit [DCU] (please see separate Operating Instructions PM 800 477 BN for the DCU)

Power supplies for wall and standard runner fitting	Order Number				
TPS 100	PM 041 827 -T				
TPS 150	PM 051 461 -T				
TPS 200	PM 041 813 -T				
TPS 300	PM 041 814 -T				
TPS 600	PM 041 815 -T				
Power supplies as a 19" insert unit					
TPS 101	PM 041 828 -T				
TPS 201	PM 041 819 -T				
TPS 301	PM 041 820 -T				
TPS 601	PM 041 821 -T				

Mains voltage is supplied via a mains cable with the following optional plugs:

Mains cable	Order number				
Schuko plug (230 V)	P 4564 309 ZA				
UL-plug (208 V)	P 4564 309 ZF				
UL-plug (115 V)	P 4564 309 ZE				

Proper use

- Power supplies may only be used to supply voltage to Pfeiffer Vacuum turbomolecular drag pumps integrated with Electronic Drive Units TC.
- Only those versions of the power supply listed here may be used.
- Power supplies may only be used under the operating conditions set out in Section 5. Technical Data.

Improper use

The following is regarded, inter alia, as improper:

- The use for purposes not covered above, in particular:
 - For connection to pumps and units which, according to their operating instructions, do not provide for such connection;
 - For connection to units where touchable, voltage carrying parts are involved.

Improper use will cause all claims for liability and guarantees to be forfeited.

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Please note: Current operating instructions are available via www.pfeiffer-vacuum.de/Infoservice.

1. Safety Instructions

🖙 Read and follow all instructions in this manual. 🖙 Inform yourself regarding:

- Hazards which can be caused by the power supply;
- Hazards which can be caused by your system.
- Observe the safety and accident prevention regulations.
- 🖙 Regularly check that all accident prevention measures are being complied with.
- Do not carry out any unauthorised conversions or alterations to the power supply.
- ☞ The TPS 300/301 and TPS 600/601 power supply output voltages are dangerous to touch. Only use original connecting cable for connection to the TC. The power supply is designed according to protection class l. It must have a connection with advanced earthed conductor contact (PE).
- When returning the power supply please note the shipping instructions in Section 4.

1.1. For Your Orientation

Instruction in the text

➡ Working instruction: Here, you have to do something."

Abbreviations used

- DCU = Display and operating unit
- Electronic drive unit, turbopump TC =
- TPS == Power supply

1.2. Pictogram Definitions



Warning, danger of personal injury.



CAUTION

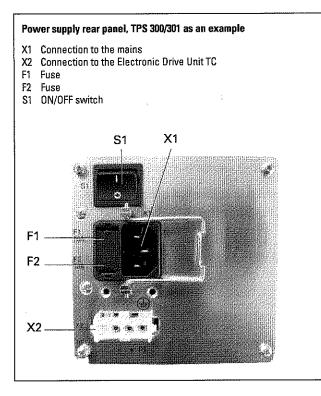
Caution, danger of damage to the power supply or to the system.



Please note, attention to particulary important information on the product, handling the product or to a particular part of the documentation.

2. Understanding The Power Supply International Conference on Conference

2.1. Main Features



Power supplies are used to supply voltage to Pfeiffer Vacuum turbomolecular pumps with integrated Electronic Drive Units TC.

The output voltage is safely separated from the mains voltage in compliance with the European Industrial Standard EN 60 742.

Power supplies are available in the following versions:

- For wall and standard runner fitting (TPS 100, 150, 200, 300, 600)
- As a 19" insert unit (TPS 101, 201, 301, 601)
- As a 19" insert unit with the Display Control Unit [DCU] (please see separate Operating Instructions PM 800 477 BN for the DCU)

Power supplies for wall and standard runner fitting	Order Number				
TPS 100	PM 041 827 -T				
TPS 150	PM 051 461 -T				
TPS 200	PM 041 813 -T				
TPS 300	PM 041 814 -T PM 041 815 -T				
TPS 600					
Power supplies as a 19" insert unit					
TPS 101	PM 041 828 -T				
TPS 201	PM 041 819 -T				
TPS 301	PM 041 820 -T				
TPS 601	PM 041 821 -T				

Mains voltage is supplied via a mains cable with the following optional plugs:

Mains cable	Order number				
Schuko plug (230 V)	P 4564 309 ZA				
UL-plug (208 V)	P 4564 309 ZF				
UL-plug (115 V)	P 4564 309 ZE				

Proper use

- Power supplies may only be used to supply voltage to Pfeiffer Vacuum turbomolecular drag pumps integrated with Electronic Drive Units TC.
- Only those versions of the power supply listed here may be used.
- Power supplies may only be used under the operating conditions set out in Section 5. Technical Data.

Improper use

The following is regarded, inter alia, as improper:

- The use for purposes not covered above, in particular:
 - For connection to pumps and units which, according to their operating instructions, do not provide for such connection;
 - For connection to units where touchable, voltage carrying parts are involved.

Improper use will cause all claims for liability and guarantees to be forfeited.

3. Installation HERRICAL HERRI

3.1. Connection To The Mains



Do not carry out any unauthorised conversions or alterations to the power supply.



The power supply should be connected to the mains in accordance with local regulations. Please refer to the technical data for the connection voltage ranges of the individual units. Protection type IP 20 applies to the units.

Plug mains connection cable into mains connection X1 (please see 2.1.).

3.2. Assembly

Power Supplies TPS 100, TPS 150, TPS 200, TPS 300 and TPS 600 / Fitting the TPS to walls

- Screw wall attachment plate 105a to the side panel of the TPS with the set of screws 105d provided.
- Secure the power supply to the wall (for dimensions please see 5.1.).
- ➡ Ensure adequate air circulation.

Fitting the TPS to standard runners

- Screw the standard runner clamping part 105c (included) with ever two screws 105f to wall attachment plate 105a.
- Screw the wall attachment plate to the side panel of the TPS with enclosed srew set 105d.
- Ensure adequate air circulation.



Do not use screws longer than 105d (6.5 mm) for wall and standard runner fitting on account of the danger of short circuits.

Inserting into a 19"/3HE rack



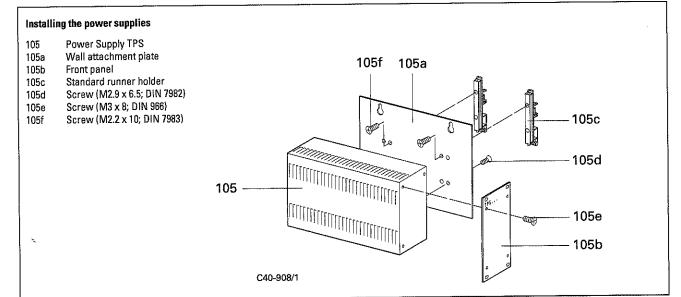
When fitting, free circulation must be ensured. The minimum distance to the cooling openings above and below is \geq 50 mm.

Power Supplies TPS 101, TPS 201 and TPS 301

- Unscrew the two screws from the front of the Power Supply TPS.
- Screw front panel 105b to the power supply using screws 105e provided.
- Insert the power supply into the rack and secure.

Power Supply TPS 601

Insert the Power Supply TPS 601 into the rack and secure.



4. Maintenance/Service сопискание и волиции волиции и волиции волиции и волиции волици волиции волиции волици волиции волиции волиц

No maintenance is required on the power supply.



No liability for personal injury nor material damage will be accepted for damages and operational interruptions which have been caused by improper maintenance; in addition, all guarantees become invalid.

Do make use of our service facilities

In the event that repairs are necessary to your power supply, a number of options are available to you to ensure any system down time is kept to a minimum:

- Return the unit to the manufacturer for repairs.
- Replace the unit with a new value exchange unit.

Local Pfeiffer Vacuum representatives can provide full details.



Repair orders are carried out according to our general conditions of sale and supply. If repairs are necessary, please send the pump to your nearest Pfeiffer Vacuum Service Center.

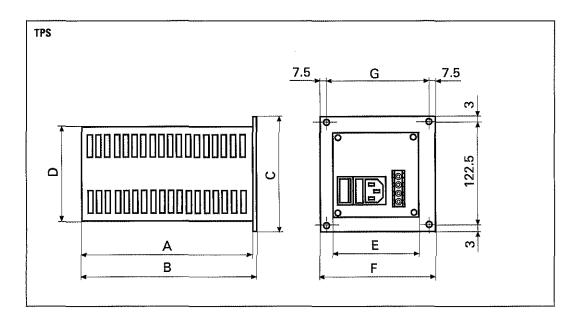
Contact addresses and telephone hotline

Contact addresses and telephone numbers can be found on the back cover of these operating instructions.

Feature	Unit	TPS 100/101	TPS 150	TPS 200/201	TPS 300/301	TPS 600/601
Connection voltage Frequency	VAC Hz	90-132 185-265 50-60				
Max. power consumption Protection class ¹⁾	VA	125 I	170 i	230 1	350 1	590 900 I
Output voltage	VDC	24	24	48	72	140
Continuous-/max. output current Continuous-/max. output power	A W	4.1/4.6 100/110	5/6.2 120/150	4.1/4.6 200/220	4.1/4.6 230/300	3.8/4.4 5.8/6.6 530/616 812/924
Permissible ambient temperature Relative humidity, max.	°C	5-40	5-40	5-40	5-40	5-40
at 35 °C	%	80	80	80	80	80
at 40 °C Protection system	%	50 IP 20				
Fuse 5 x 20 mm AttentionI Double pole/neutral fu	A sing.	T2	T4	T4	T5	F10
Weight	kg	1.2	1.4	1.4	1.7	2.5

1) Mains with earthed conductor

5.1. Dimensions



	Dimensions (mm)						
Power Supply	A	В	C	D	E	F	G
TPS 100/101	190	192,5	128,5	106	46	50,5 (10 TE) ¹⁾	35,5
TPS 150	190	192,5	128,5	106	68	70,8 (14 TE) ¹⁾	55,9
TPS 200/201	190	192,5	128,5	106	68	70,8 (14 TE) ¹⁾	55,9
TPS 300/301	190	192,5	128,5	106	105	106,3 (21 TE) ¹⁾	91,4
TPS 600/601	229	229	128,5	111	140,5	141,9 (28 TE) ¹⁾	127

1) TE = Rack design partitions, 19" German Industrial Standard DIN 41 488 is divided into 84 partitions.

