SCHIEDERWERK

Electronic Power Supply

SMPS 48-53 10 U

Technical Specifications

CHARACTERISTICS

- Compact and light design
- High efficiency
- High reliability

ORDER NUMBER

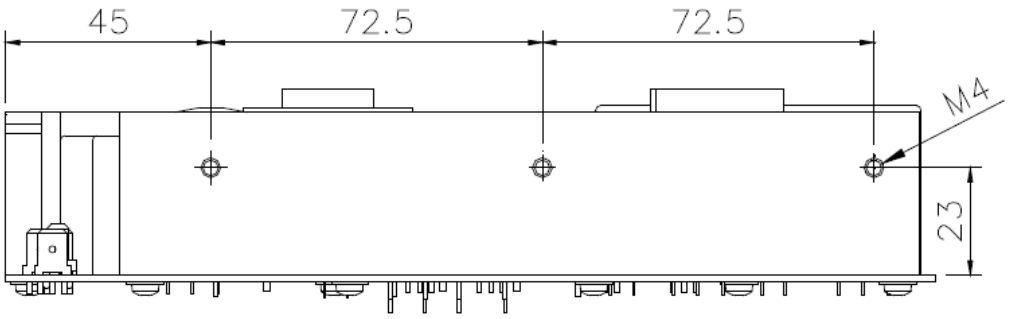
Type	Order No.	Output Power	Connector (input)	Connector (output)
SMPS 48-53 10 U	35 429 1000	1000 W	3x AMP6,3	3x AMP 4,8 3x AMP 6,3

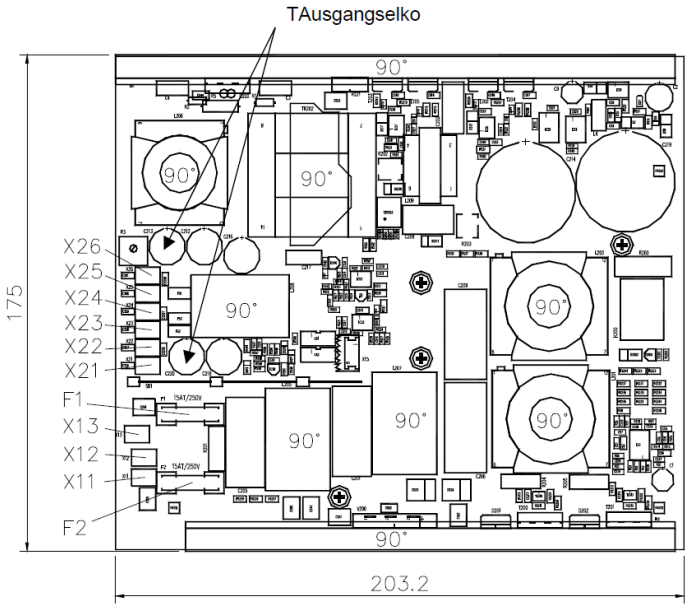
TECHNICAL DATA

Input voltage range, nominal (AC)	100V – 240V (functional 90V – 264V)
Input current range (AC)	7,8A – 3,3A (100V – 240V)
Inrush current (peak value)	< 35A
Frequency range	50Hz - 60Hz (functional 47Hz - 63Hz)
Input voltage range, nominal (AC)	100 – 240V (functional 90V – 264V)
Input current range (AC)	10 A – 5A (100V – 240V)
Frequency range	50Hz - 60Hz (functional 47Hz – 63Hz)
Inrush current (peak value)	< 35A
Hold-Up Time	10ms
Output voltage / current / power (DC)	48-53V/ 19A / 1000W
Peak Output current (max.)	23A
Output voltage tolerance	+/- 2 % (10% - 100% load)
Maximum output voltage	55V (no load)
Overvoltage protection	60V
Efficiency	typical 90%
Power factor	> 0,94 at nominal load within input voltage range
EMI	Internal noise filter
Earth leakage current	< 0,5mA (240 VAC mains voltage @ 60Hz)
Ambient temperature	0°C ...+50°C operation (no condensation) -5°C ...+60°C storage
Cooling	Forced cooling with min. 0,654 m^3/min (23,1 CFM)
Thermal Shutdown, automatically	90-100°C shell- / heatsink-temperature
Dimensions in mm	l = 203,5 w = 175 h = 45

Subject to changes without notice

PERMITTED MAXIMAL OPERATION TEMPERATURES ON COMPONENT SURFACES





TElko in °C	Lebensdauer in h
105 °C	2000
95 °C	4000
85 °C	8000
75 °C	16000
65 °C	32000
55 °C	64000
45 °C	128000

TAusgangselko in °C	Lebensdauer in h
105	5000
95	10000
85	20000
75	40000
65	80000
55	160000
45	320000

PLUG CONNECTION

OUTPUT		
X26	Ground (PE)	AMP 6,3
X25	48V (LEDs, 10A fuse)	AMP 4,8
X24	Ground (PE)	AMP 6,3
X23	48V (LEDs, 10A fuse)	AMP 4,8
X22	Ground (PE)	AMP 6,3
X21	48V (Zusatzboard, 10A fuse)	AMP 4,8
INPUT		
X13	PE	AMP 6,3
X12	N (15A fuse)	AMP 6,3
X11	L (15A fuse)	AMP 6,3

WARNING NOTICE

A basic requirement for both installation and initial operation of the power supply assembly is the knowledge of the updated mounting and wiring instructions that are included in delivery. In case of any doubt it is imperative to contact Schiederwerk.

The power supply assembly (SMPS) has been designed to be installed in closed housings. Mounting, wiring and replacement if necessary has to be done by qualified personnel only. Due observation of the valid norms and safety regulations is mandatory when mounting and wiring the device. See that sufficient cooling is provided during operation.

The output voltage of the assembly is galvanically isolated from mains voltage. Output voltage level is within SELV range and absolutely nonhazardous in case of touching. The output is short-circuit proof. However, short-circuits on the output side should be avoided in order to prevent sparking. Use tools or measuring equipment that is mostly insulated.

The power supply assembly must never be used in explosive areas or close to inflammable material.

Do not expose the devices to moisture, dust or other kind of contamination because this may cause short circuits or fire in worst case.

Furthermore, the power supply assembly may be used outdoor under special conditions only. In case of doubt, please contact Schiederwerk.

For measurements at the power supply use an isolating transformer and carry out your work with due diligence. Measuring equipment must not be connected to Protective Earth (PE) in any way.

Schiederwerk does not assume liability for disregarding of this notice, incorrect use of the SMPS or disregarding of any legal requirements. This product is subject to technical changes without prior notice.

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