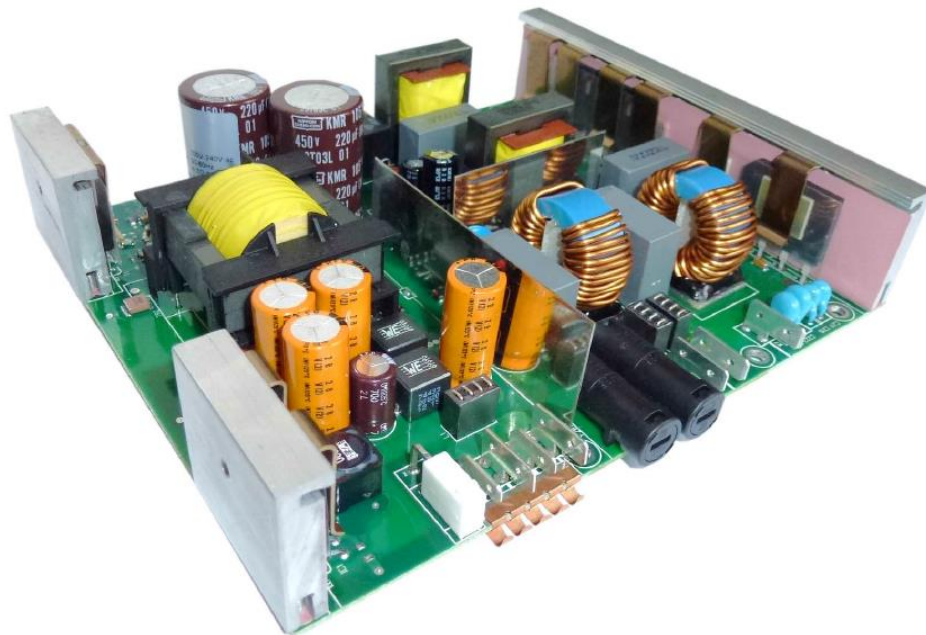


SCHIEDERWERK

Electronic Power Supply

SMPS 48/14,6 07 U

Technical Specifications



CHARACTERISTICS

- Compact and light design
- High efficiency
- High reliability

ORDER NUMBER

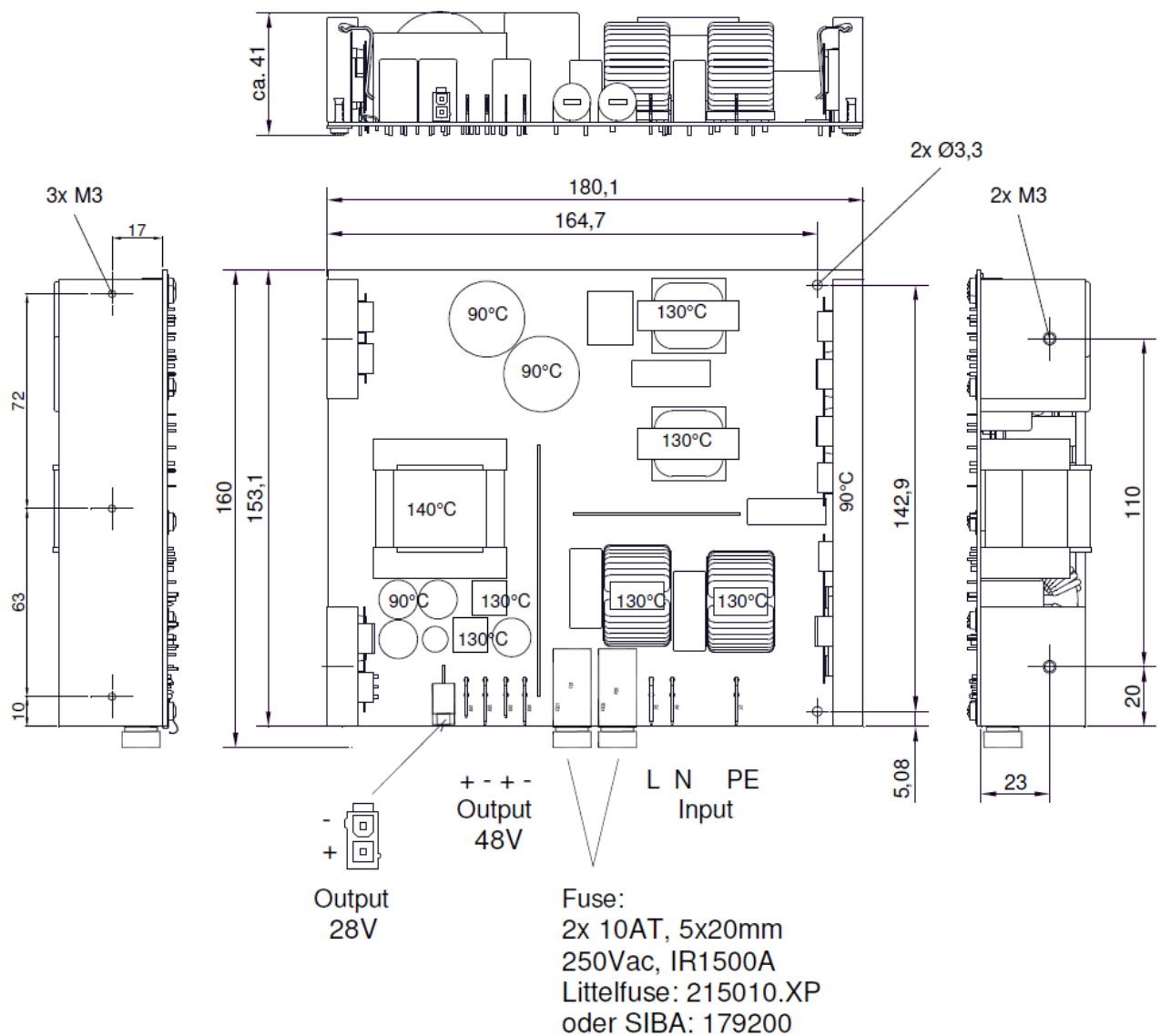
Type	Order No.	Output Power	Connector (input)	Connector (output)
SMPS 48/14,6 07 U	35 149 1800	700 W	3 x AMP 6.3mm 90° for PCB	MOLEX 5569 Mini Fit Jr. 2-pole (28V) 2xAMP 6.3x0.8mm 90° (48V GND) 2xAMP 4.8x0.8mm 90° (48V)

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)
Hold-Up Time	10ms
Output voltage / current / power (DC)	48V / 14,3A / 683W (approx.)
Output voltage / current / power (DC)	28V / 2A / 56W (approx.)
Peak Output current (max.)	17A @ 48V
Output voltage tolerance	+/- 3 % (10% - 100% load)
Maximum output voltage	50V (no load)
Overvoltage protection	56V
Output voltage ripple	< ± 0,2 V
Efficiency	> 90%
Power factor	> 0,94 at nominal load within input voltage range
EMI	Internal noise filter
Earth leakage current	< 1mA (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 = 180,1 w = 153 h = 43

Subject to changes without notice

DIMENSIONS AND CONNECTION PLAN | Permitted maximal operation temperatures on component surfaces



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 non-hazardous 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.

Last Update: 26.04.2018