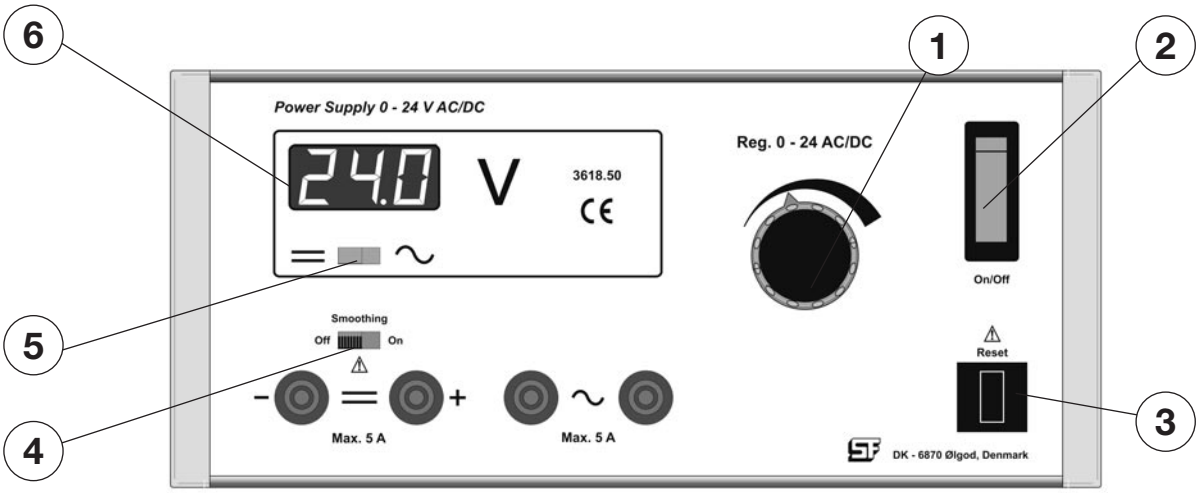
Power Supply no. 3618.50

15.12.10 Ae 3618.50



Description

The power supply can provide both AC and DC current. The DC unit has optional connection of smoothing. When the smoothing feature is connected the maximum DC ripple voltage will be 5 V peak-to-peak.

AC: 0-24 V continuously variable, max. 5 A.

DC: 0-24 V continuously variable, max. 5 A without smoothing, max. 3 A with smoothing.

The power supply is provided with a safety transformer, automatic thermal interrupt protection and a 3-digit digital display showing the output voltage. The display is provided with a switch for showing DC or AC voltages.

The power supply is connected to the mains supply using the cable provided.

Warning

The mains power cable supplied with the power supply is provided with a ground connection. For safety reasons the power supply should always be connected to the mains supply with a grounded power cable.

Operation

It is recommended that the regulation knob (1) be turned to its maximum counterclockwise position (0 V output) before turning on the power. Connect the power supply to the mains supply (230 V, 50 Hz) using the power cable provided. Turn on the power using the power switch (2). It should light up indicating that the power supply is turned on.

Using the DC output

Move the switch (5) to the = position for DC.

The output voltage can now be adjusted using the regulating knob (1), and the voltage value is displayed on the digital display (6).

With the smoothing switch (4) in the ON position a smoothing capacitor is connected across the output terminals reducing the ripple voltage to maximum 5 V peak-to-peak.

If the smoothing switch (4) is in the OFF position, the smoothing capacitor is disconnected. This means that the ripple voltage will be 100% of the output as the output is now full wave rectified.

A/S Søren Frederiksen, Ølgod
Viaduktvej 35 · DK-6870 Ølgod
Tel. +45 7524 4966
Fax +45 7524 6282
info@frederiksen.eu
www.frederiksen.eu

Without smoothing the power supply can provide up to 5 A continuous output current. With the smoothing feature engaged the maximum output current is restricted to max. 3 A continuous. If a larger current is drawn in this mode the circuit breaker will be opened at once.

Use of the DC output

The switch (5) is moved to the ~ AC position.

The output voltage is adjusted using the regulation knob (1), and the voltage value can be read in the digital display (6).

The automatic circuit breaker will open at once if current limitations are exceeded. When the overloading condition has been corrected, then the circuit breaker can be closed by pushing it in, and the power supply will again operate normally.

Technical data:

Supply voltage:	200-242 V, 50 Hz.
Supply current:	Max. 1,1 A.
Idle current:	Ca. 100 mA.
Fuse:	2 A slow-blow.
Transformer protection:	Thermal circuit breaker activates at 1300 C.
Maximum power use:	250 W.
DC	
Output voltage:	0-24 V continuously variable.
Output current:	Max. 5 A.
Ripple and noise:	Max. 5 V (smoothed).
Digital readout:	1% +/-2 LSD.
AC	
Output voltage:	0-24 V continuously variable.
Output current:	Max. 5 A.
Digital readout:	2% +/-2 LSD.
Size (WxDxH):	170x120x240 mm.
Mass:	6 kg.