

QUASAR

PSU682

POWER SUPPLY
0-30V / 0-10A

INSTRUCTION MANUAL

UK

The Quasar range of adjustable power supplies is fitted with high precision voltage and current controls. The voltage is continuously adjustable and the max. output current limit can also be adjusted. The power supply can be used as a constant power source. In that case the current is continuously adjustable.

The power supply has been designed for professional use in work shops, laboratories and schools.

The digital voltage and current display has a precision of 1 decimal with a max. deviation of $\pm 1\% + 2$ digits. The high precision control circuit can reach via an external measurement instrument an accuracy of 5mV for voltage and 10mA for current.

Operation

Front panel:

1. Voltage and current display
2. Current adjustment
3. Fine adjustment of current
4. Fine adjustment of voltage
5. Voltage adjustment.
6. LED indicator of voltage source (current limit is not activated)
7. LED indicator for current source (current limit is activated)
8. ON/OFF switch
9. 3 connection terminals:
 - red (+)
 - black (-)
 - green (earth ground)

Load connection

Adjust the required voltage and connect the unit to be powered to the red (+) and black (-) terminals. The current display shows the supplied current. If the current LED lights up, the power supply is overloaded or shorted. Check the connections and adjust the load in order to ensure trouble-free operation.

If you want to use the unit as a constant power supply, rotate both voltage controls completely clockwise (max. voltage) and the current control knob completely anti-clockwise until the required current value is reached.

Under normal conditions, the current control knob can be turned completely clockwise (for max. current) or rotated back to a required maximum current value in order to protect the connected unit.

Safety recommendations:

- Check the case and the leads for damage.
- For indoor use only
- Do not use the unit in humid areas
- Do not spill liquids inside the housing.
- Do not place the unit at a warm place (max. 30°C)
- Do not obstruct the ventilation holes and heat sink. Leave enough space around the unit to ensure sufficient ventilation.
- The heat sink might get hot during operation. Do not touch during operation !
- Do not open the housing – leave all repairs to a qualified technician.

- Before replacing the fuse, unplug the unit from the mains.
- The power supply has an excellent short-circuit protection. However, in case of a short circuit, cure the problem as quickly as possible in order to avoid wear and tear of the unit and high current consumption.
- WARNING: THIS UNIT CAN SUPPLY HIGH CURRENTS !!!

Specifications:

Input voltage 230V / 50Hz

Output voltage 0-30V adjustable

Max. ripple & noise <15mV (at max. load)

Output current 0-10Amps adjustable