



## Specifications

(Reference Temperature: 23°C ± 1°C)

### Voltages 2x0-32V

**Range:** 0-32V, continuously variable  
via coarse and fine voltage output controls  
**Resolution:** 100mV  
**Output current:** 2x 0-2A  
**Setting range:** 2x <0.05-2A

**Resolution:** 1mA (0-1999mA), 10mA (≥ 2A)  
**Current limit:** < 50mA to 2A  
continuously adjustable

### Voltages 2.7V – 5.5V

**Range:** 2.7V - 5.5V (±0.1V) continuously variable  
**Resolution:** 10mV  
**Output current:** 0-3.3A  
**Setting range:** 0.05-3.3A  
**Resolution:** 10mA

### General Information

**Internal resistance:** (static) typ. 7mV  
dynamic typ. 200mV  
**Stability:** ≤ 2.5mV  
at line voltage variations of up to 10%  
**Regulating time:** ≤ 80ms  
**Load regulation:** ≤ 0.05%  
**Temperature coefficient:** ≤ 0.1%/°C  
**Ripple and noise:** ≤ 1mV (fo: 100 kHz)  
All outputs floating. Series connection of all outputs possible (max. potential ±100V with respect to chassis and/or protective earth). Outputs are switchable from the front panel.  
Built in overheating protection and fan.  
**Operating modes:** constant voltage (CV)  
constant current (CC)  
excess current release

### Display

Six digit 7-segment LED-displays with separate indication for voltage and current; Current limit indicator

### Miscellaneous

**Line voltage:** 115/230V AC ±10%, 50/60Hz  
**Power consumption:** approx. 250 Watt at full load  
Min./Max. ambient temperature: 0°C...+40°C  
**Protective system:** Safety class I (IEC 1010-1)  
**Weight:** approx. 6kg, color: techno-brown  
**Cabinet:** W 285, H 75, D 365 mm

## Triple Power Supply HM7042-2

- 3 independent DC Supply Voltages
- 2x0-32V, 2A; 1x2.7-5.5V, 3.3A
- Floating Outputs
- Digital Displays for Voltage and Current
- Adjustable Current Limiter
- Parallel and Serial Operation

The **HM7042-2** Triple Power Supply is a compact instrument developed for current and voltage supply requirements in the laboratory field. The unit is manually controlled featuring linear voltage regulation with low ripple and noise. This new designed instrument combines DC/DC converters as pre regulator followed by a linear voltage regulator.

There are a total of three floating voltages which are independent from each other with a total output power of maximum **146W**.

The output current and voltage is continuously variable in one range from 0V to 32V and 50mA to 2A. In addition to the two voltages, the **HM7042-2** has an additional output which is rated at **3.3A** and variable between **2.7V** and **5.5V**. This feature is ideal for the supply of low voltage CMOS or TTL components. The change over from voltage control to current control is performed automatically, based on the load, and is indicated via LEDs. All outputs can be switched On/Off simultaneously with the push of a button. Serial and parallel operation is possible with all of the three floating outputs.

The **HM7042-2** possesses every safety feature necessary to ensure problem-free operation. The built in fan is temperature controlled and starts operating after 40°C is reached inside the instrument. Due to its high quality standard, the HM7042-2, which is stackable with other **HAMEG** instruments, will always be a cost effective alternative which rivals other, more expensive units.

Accessories supplied: Line Cord, Operators Manual

