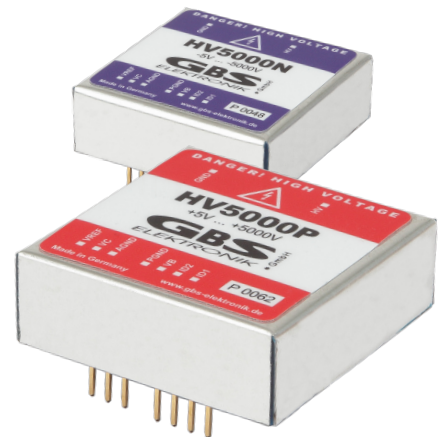


# HIGH VOLTAGE POWER SUPPLY MODULE

## HV5000



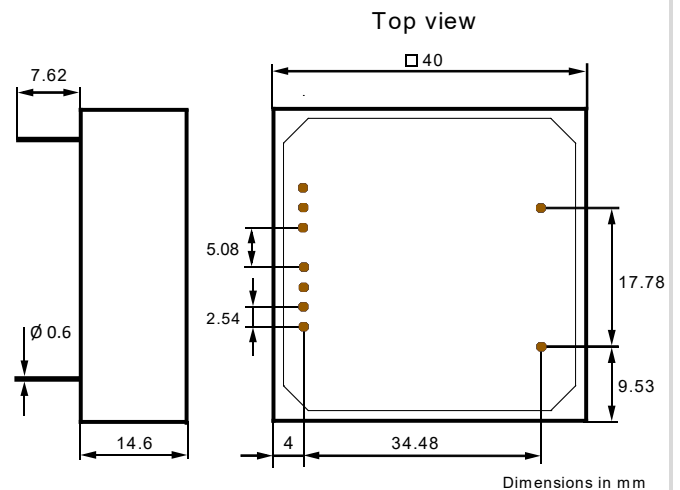
The HV5000 module is a compact and low power consuming DC/DC converter, designed to be used on printed circuit boards. It is intended to supply large HPGe- or CdZnTe detectors, with high voltage up to 5000V. The Module is also usable for PMT applications. The HV5000 is available in both polarities.



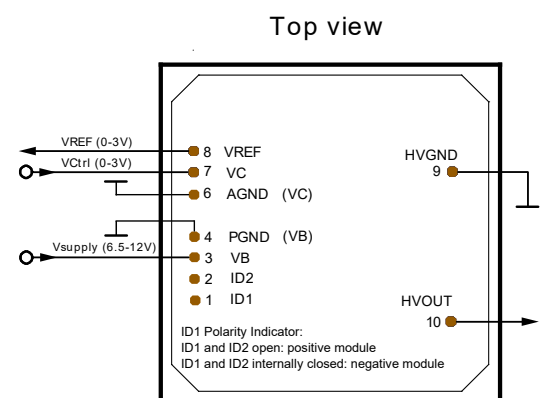
### Technical Specifications

Output voltage (depends on module version)	+5V to +5000V -5V to -5000V
Output current	40µA @5000V 400µA @500V
Input voltage range	6.5 – 12V; 7.5V nominal
Output short circuit current	<600µA
Power consumption for 250MΩ load   HV=5000V	~325mW @6.5V ~360mW @7.5V
Quiescent current (V <sub>ctrl</sub> =0V)	~3mA @7.5V
Internal output capacity	~4nF
Reference voltage (V <sub>Ref</sub> )	0 - 4.17V
Control voltage range (VC)	0 - 4.17V
Control voltage transfer factor	1200 (± 3%)
Output ripple and noise voltage [ 0.1Hz – 10kHz]	<40mVpp
Output series resistor for V <sub>Ref</sub>	1kΩ
Temperature stability	± 200ppm /°C
Operating temperature	0°C - 60°C
Dimensions (mm)	40 x 40 x 15.5
Weight	~45g

### Mechanical Dimensions



### Pin Description



### Ordering

**HV5000-** (HV-Modul -5 to -5000V)  
**HV5000+** (HV-Modul +5 to +5000V)