

# HIGH VOLTAGE POWER SUPPLY MODULE

## HV1200

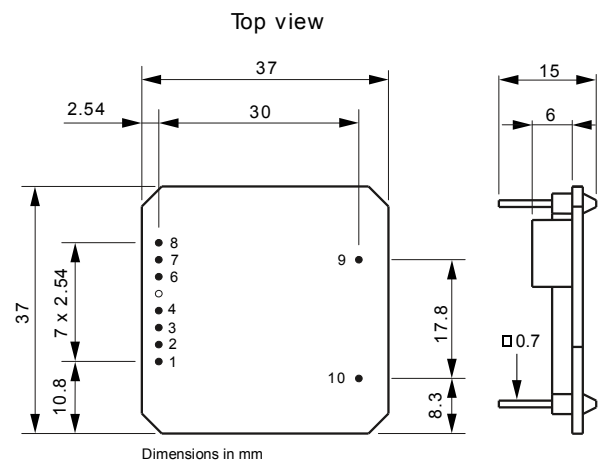


The HV1200 module is a compact and low power consuming DC/DC converter, designed to be used on printed circuit boards. It is intended to supply common detectors as NaI, CdZnTe or similar with high voltage up to 1200V. The module is fully compatible with the HV3600 / HV5000 moduls in terms of pin layout and pin assignment. The HV1200 module is available in both polarities.

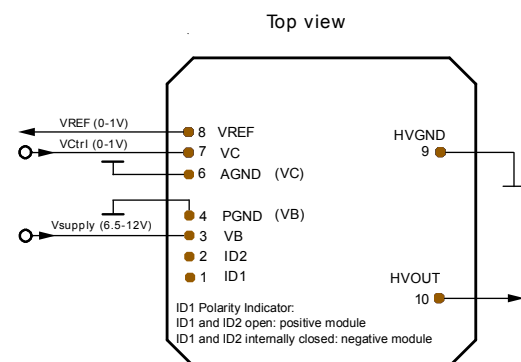
### Technical Specifications

Output voltage (depends on module version)	+10V to +1200V -10V to -1200V
Output current	250µA @1200V 500µA @600V
Input voltage range	6.5 – 12V; 7.5V nominal
Output short circuit current	~2.7mA
Power consumption for 4.7MΩ load   HV=1200V	~250mW @8V
Quiescent current (V <sub>ctrl</sub> =0V)	~4.2mA @8V
Internal output capacity	~100nF
Reference voltage (monitor)	0 – 1V
Control voltage range	0 – 1V
Control voltage transfer factor	1200 (± 2%)
Output ripple and noise voltage [ 0.1Hz – 10kHz]	<70mVpp
Output series resistor for V <sub>mon</sub>	1kΩ
Temperature stability	± 200ppm /°C
Operating temperature	0°C - 60°C
Dimensions (mm)	37 x 37 x 15
Weight	~9g

### Mechanical Dimensions



### Pin Description



### Ordering

**HV1200-** (HV-Modul -10 to -1200V)  
**HV1200+** (HV-Modul +10 to +1200V)