

## CC Series

### PCB-mount ultra compact power supply module

1 standard model

Reference: **CC12P202101**

Vin : 12Vdc

Vout : 0 to +2000V










Pout<sub>max</sub> : 0.2W



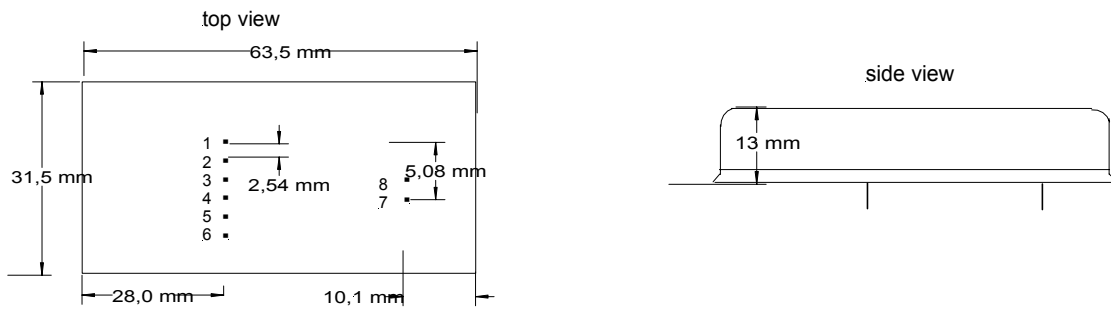
- small height, lightweight
- PCB flat mounting
- tight line/load regulation
- extremely low ripple (0,002% peak to peak)
- low noise due to metal shielding
- low power consumption
- voltage programming
- voltage and current monitoring

Parameters	Specifications	Possible Applications		
Input voltage Vin <small>(pins 5 &amp; 6)</small>	12Vdc ±0.5Vdc	<ul style="list-style-type: none"> <li>▪ Avalanche Photodiodes (APD)</li> <li>▪ Photodiodes (PD)</li> <li>▪ Photomultiplier Tubes (PMT)</li> </ul>		
Input current	at no load : 15mA at full load : <45mA			
HV output Vout <small>(pin 7)</small>	adjustable from 0 to 2050V ±2.5%			
Polarity	fixed positive	<b>Package Configuration</b>		
HV setting <small>(pins 3 &amp; 4)</small>	via external voltage source 0/2.5V linearity in the 800V to 2000V range : ±1% accuracy : ±2.5% input impedance : >1MΩ			
Max. output current Iout	100µA nominal			
Load voltage regulation	±0,01% of full output voltage for no load to full load			
Line voltage regulation	±0,01% of full output voltage over specified input voltage range			
Residual ripple	0.002% peak-to-peak at full load	Case material	tin plate thickness 0.5mm	
Temperature coefficient	100ppm/°C	Case dimensions LxHxW	63.5 x 13.0 x 31.5 mm	
Output HV monitoring <small>(pins 1 &amp; 2)</small>	Voltage	Current	Input / Output connections	through section 0.63 x 0.63mm square pins, length : 4mm, spacing : 2.54mm
	0 to +5V analog represents 0 to 2kV accuracy : ±2.5% output impedance = 748kΩ ±1%	0 to +5V analog represents 0 to 100µA accuracy : ±5% advised maximum output current monitoring : 5mA	Weight	45g
Operating temperature	-10°C to +60°C	Insulation	fully potted in an epoxy resin	
Storage temperature	-10°C to +70°C	<b>Pin Connections</b>		
Safeguards	<ul style="list-style-type: none"> <li>▪ arc and short circuit protection</li> <li>▪ restarts after arc and short circuit</li> </ul>	Line input :	6. Vin 5. 0V supply	
		HV setting :	4. control input 0/2.5V 3. output reference 2.5V	
		HV monitoring :	2. Vout monitoring (2kV/5V) 1. Iout monitoring(100µA/5V)	
		HV output :	7. Vout 8. Vout	

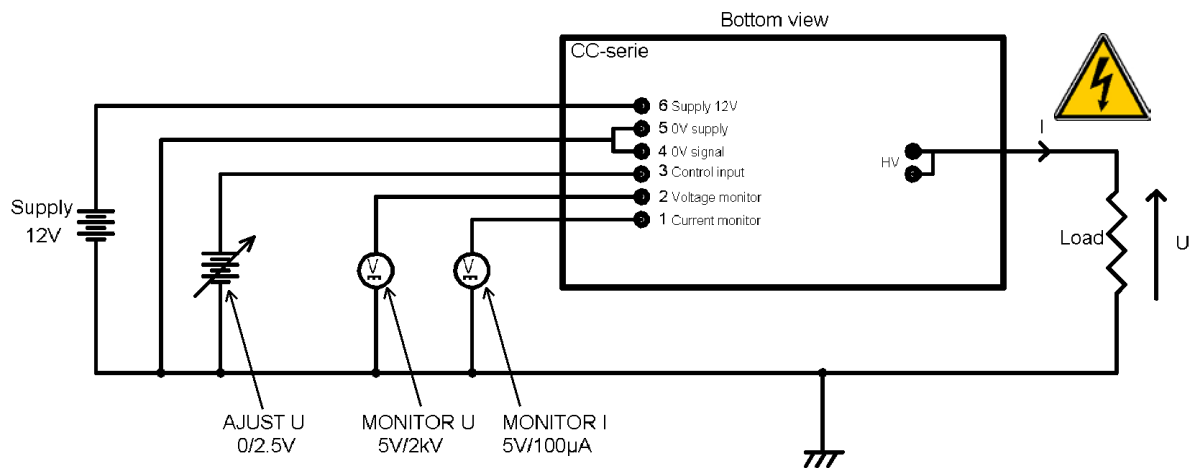
### Marking

Systems Developments & Solutions	
33 (0)1 43 97 65 04 <a href="http://www.sds-hv.com">http://www.sds-hv.com</a>	
CC Series Power supply CCP12P2101 Serial Nr: 0700662866	<ul style="list-style-type: none"> <li>◦ 1: Current mon. 5V/100µA</li> <li>◦ 2: Voltage mon. 5V/2kV</li> <li>◦ 3: Control input 0/2.5V</li> <li>◦ 4: 0V Signal</li> <li>◦ 5: Supply 0V</li> <li>◦ 6: Supply 12V</li> </ul> <div style="text-align: right; margin-top: 10px;">   </div> <div style="text-align: center; margin-top: 10px;">  </div> <div style="text-align: center; margin-top: 10px;">   </div> <div style="text-align: center; margin-top: 10px;">     </div> <p style="text-align: center; margin-top: 10px;">Made in France</p>

Mechanical Dimensions



Functional Diagram



This High Voltage power supply satisfies the requirements of EC Directives Safety EN 61010-1 2001 Edition & EMC EN 61326-1: 1977 + A1: 1998 + A2: 2001 + A3 : 2004