PM-6009

6.5 to 40V INPUT Multi output DC2DC Power supply Module

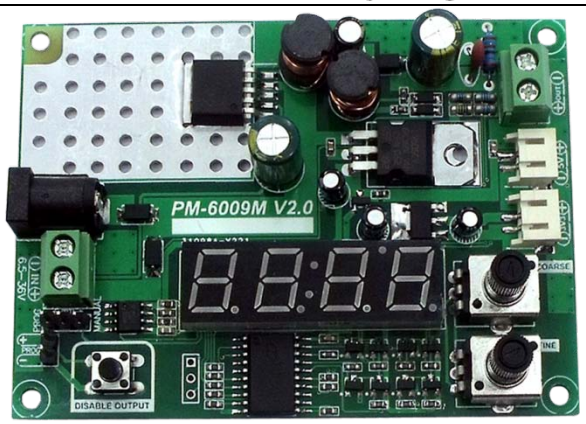
INHAOS™ Everything done inhouse

Programmable DC2DC Buck-Boost Power Supply

6.5 to 40V INPUT
0.8 to 30V OUTPUT
High precision voltmeter
Coarse and Fine adjustable
3CH Outout (Adjustable / 5V / 3.3V)
SPICE circuit

0 to 3V Programmable voltate:

Vout = Vin * 11 (V)



Features & Parameters

- Adopt XLSEMI 220KHz 60V 5A Switching Current DC/DC Converter
- **3CH output:**

  CH1: Adjustable output: 0.8 to 30V Buck/Boost (SEPIC)

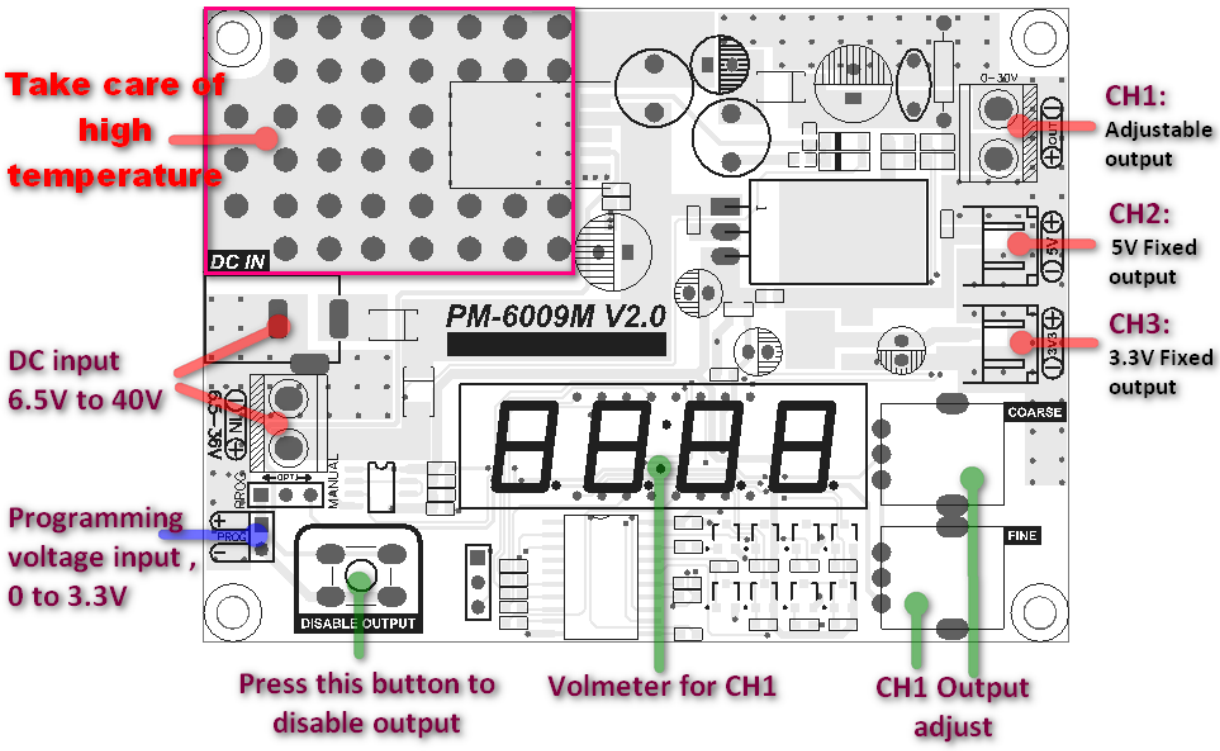
  CH2: Fixed 5V output: 5V 500mA Output

  CH3: Fixed 3.3V output: 3.3V 300mA Output

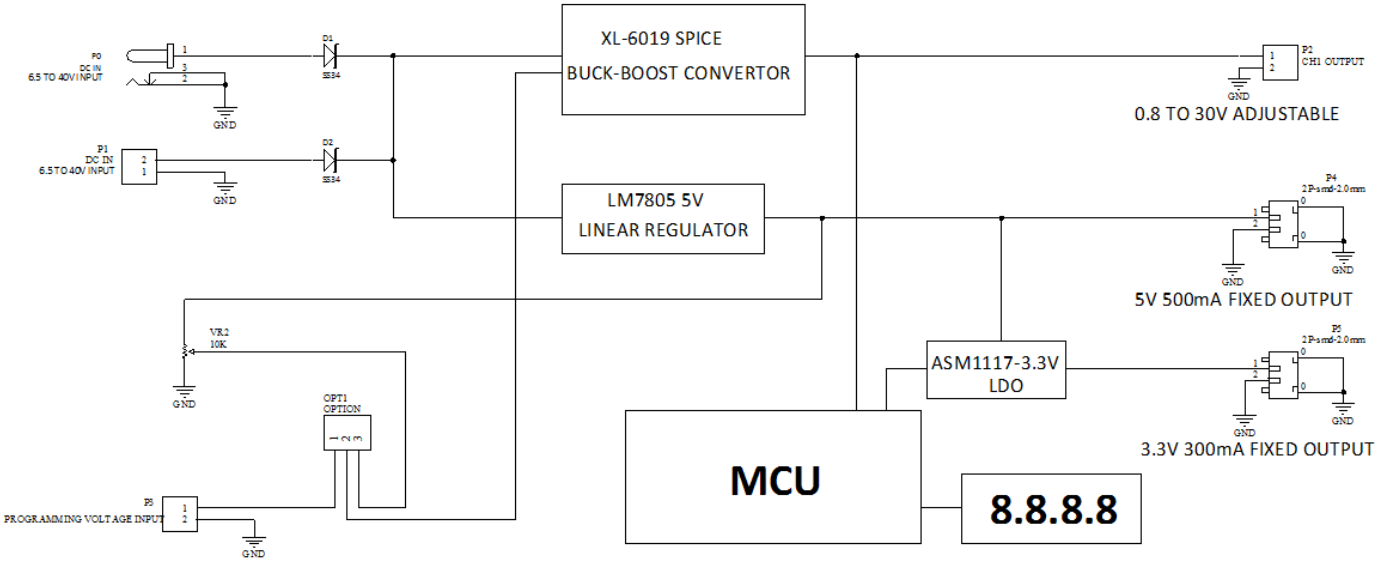
  The 5V and 3.3V output load capability is depended on the input voltage , the typical input is 12V.
- Wide 6.5V to 40V Input Voltage Range
- 0.8 to 30V Output Voltage Range
- Fixed 220KHz Switching Current
- Excellent Line and Load regulation
- Can be control by a voltage , become a programmable power supply
- Input Voltage Range: 6.5 to 40V
- Output: 1CH Adjustable OUT, 1CH 5V and 1CH 3.3V Out
- Max Switching Current(Adjustable channel): 5A
- Programmable input voltage: 0 to 3.3V
- Volt Meter tolerance: 0.5% (+-1)
- Operation Temperature: -40 to 125° C
- Storage Temperature: -65 to 165° C

Notice:
The 5V and 3.3V output is used for small load capability which is less than 500mA, the big current consumption will impact the system's accurate and maybe damaged the module.

Block diagram



Schematic:

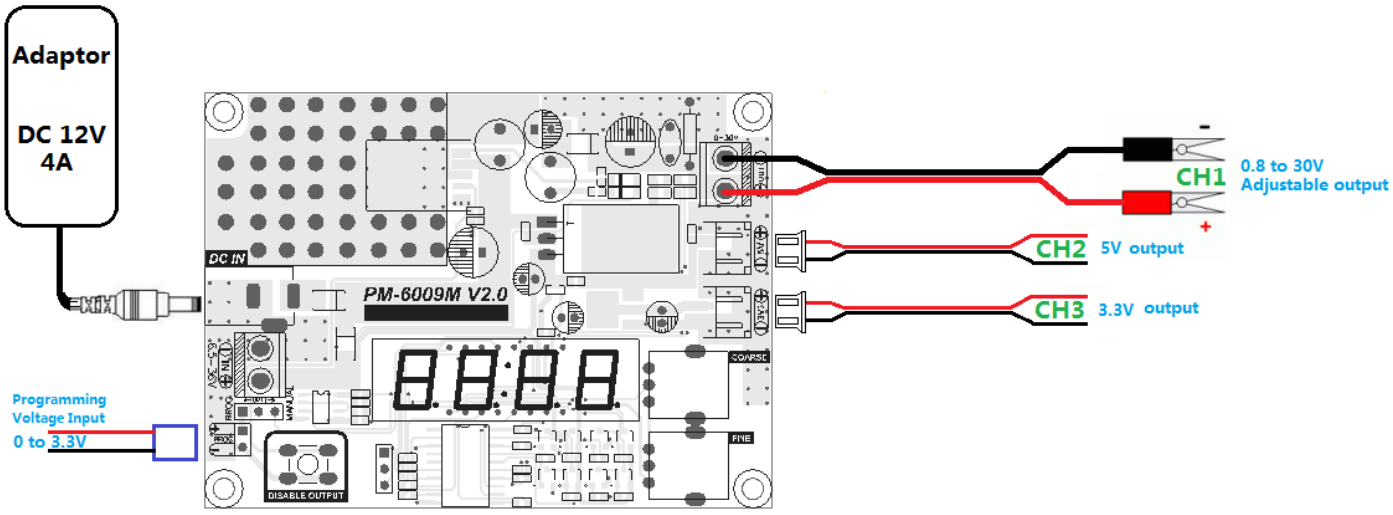


The PM-6009M support two method for CH1 adjust :

1, Adjust by manual: Please set **OPT1** to **MANUAL** side , then turn the VR , the output voltage will be change between 0.8 to 30V , here have two VR , one is Coarse adjust and the other one is for fine adjust.

2, Adjust by programming: Please set **OTP1** to **PROG** side, the output of CH1 will follow the PROG voltage , the output voltage can be calculate : **Vout = Vprog * 11** , and the module will be limit max output voltage within 30V, so if the Vprog higher than 2.7V , the output will be stay on 30V .

Application :



Contact us

INHAOS Headquarter：：

1111 Oakmont Drive #C, San Jose, CA 95117

E-mail ： support@inhaos.com

INHAOS China office：：

No.6 Building,Songke Estate,Songshan Lake National Hi-tech Industrial Development Zone,Dongguan,Guangdong Province，523808,China

E-mail：Support@inhaos.com