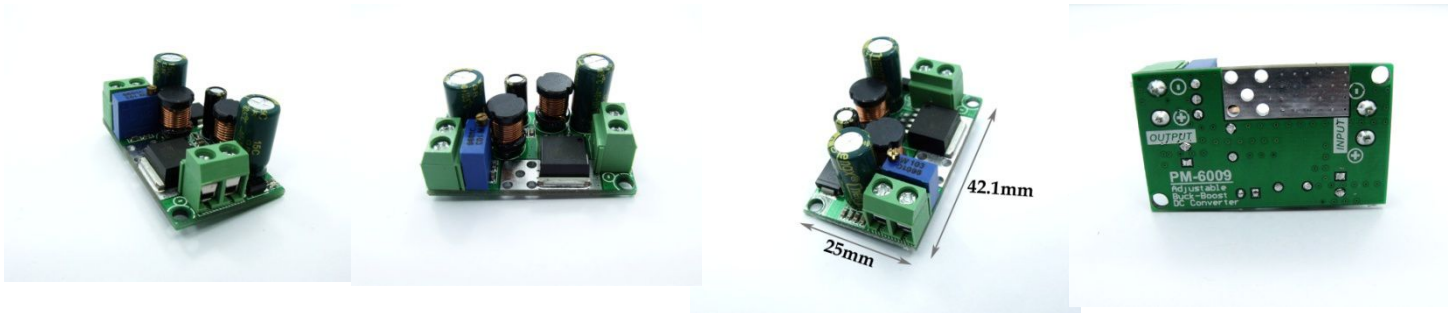


PM-6009

1.25~45V Buck-Boost Power Supply Module



Features & Parameters

- Adopt XLSEMI 400KHz 60V 4A Switching Current DC/DC Converter
- **PM-6009DU**: Buck/Boost (SEPIC) Circuit topology
- **PM-6009B**: Boost Circuit topology
- Wide 5V to 32V Input Voltage Range
- 1.25V to 45V Output Voltage Range
- Fixed 400KHz Switching Current
- Excellent Line and Load regulation
- High efficiency:
 - **PM-6009DU**: up to 82.5% (SEPIC mode)
 - **PM-6009B**: up to 93.4% (Boost Mode)
- Onboard Soft-Start Function
- Input Voltage Range: 5 to 32V
- Output Voltage Range: **PM-6009DU**: 1.25 to 45V
- **PM-6009B**: Vin to 45V
- Max Switching Current: 4A
- Operation Temperature: -40 to 125° C
- Storage Temperature: -65 to 165° C

Please notes:

- 1, the conversion efficiency of the SEPIC circuit architecture is slightly lower than the single boost or buck architecture.
- 2, the output load capacity depends on the ratio of the Output, the maximum switch current limit is 4A.
- 3, If the board with high temperature, the output voltage will not be stable, in this case, please reduce Load current.

4, This Module with two circuit topology for user choice:

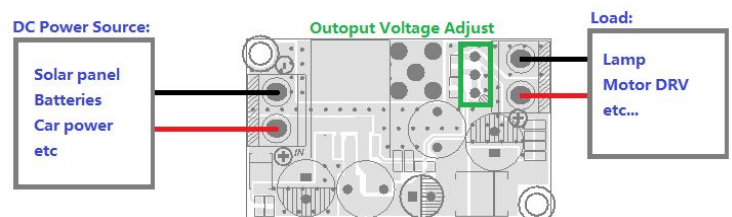
- **PM-6009DU**: SEPIC topology, Module working in buck/boost mode.
- **PM-6009B**: Boost topology, the INPUT voltage need to less than OUT voltage

Test Data

No.	IN(V)	OUT(V)	PM-6009DU MAX Load (mA)	PM-6009B MAX Load (mA)
1	5	5	1000	1600
2	5	12	510	950
3	5	24	260	330
4	7.4	5	1500	NA
5	7.4	12	820	1500
6	7.4	24	420	610
7	12	5	2300	NA
8	12	12	1300	3000
9	12	24	750	1100
10	12	40	400	600

If the board with high temperature, the output voltage will not be stable, in this case, please reduce Load current.

Typical Applications:



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