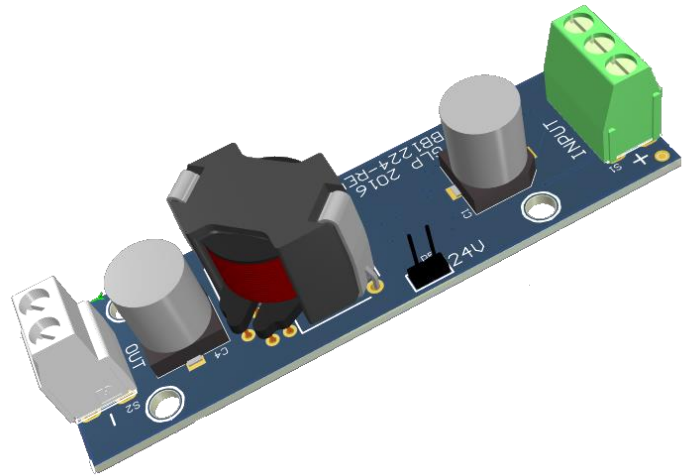


High efficiency DC-DC step up (boost) converter

Features

- Wide input voltage, up to 34VDC
- Efficiency above 95%
- Load current up to 4A
- No cooling required at full load
- Selectable output voltage, 19V, 24V
- Fixed 48V
- Short circuit protection
- Reverse polarity protection
- On-Off control



Application

- Battery voltage conversion

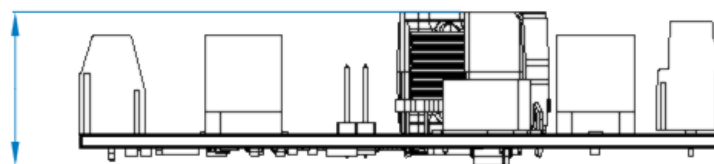
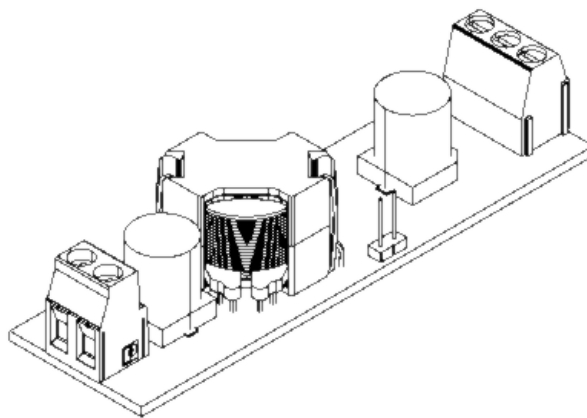
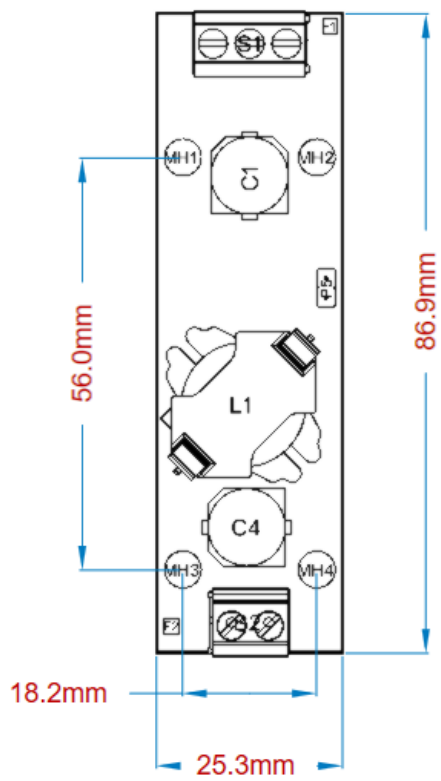
Absolut maximum ratings

Parameter	Symbol	Value	Unit
Input voltage	V _{in}	-30 to 35	V
Output current	I _{out}	4	A
Control	V _{ctrl}	0 to 5	V

Operation conditions

Parameter	Symbol	Value	Unit
Input voltage	V _{in}	10 to 33 ¹	V
Output voltage	V _{out}	19,24,48 ²	V
Output current	I _{out}	0 to 5 ³	A
Control	V _{ctrl}	0 to float ⁴	V
Line/load regulation	Reg	2	%
Output power	P _{out}	Up to 90	V
Efficiency	E	Above 95 ⁵	%

1. Output voltage always equal or above input voltage
2. 19, 24 V selectable, 48V fixed
3. Output power up to 90W
4. Connect to “-“ to switch output off
5. At output power above 30W



21.0mm