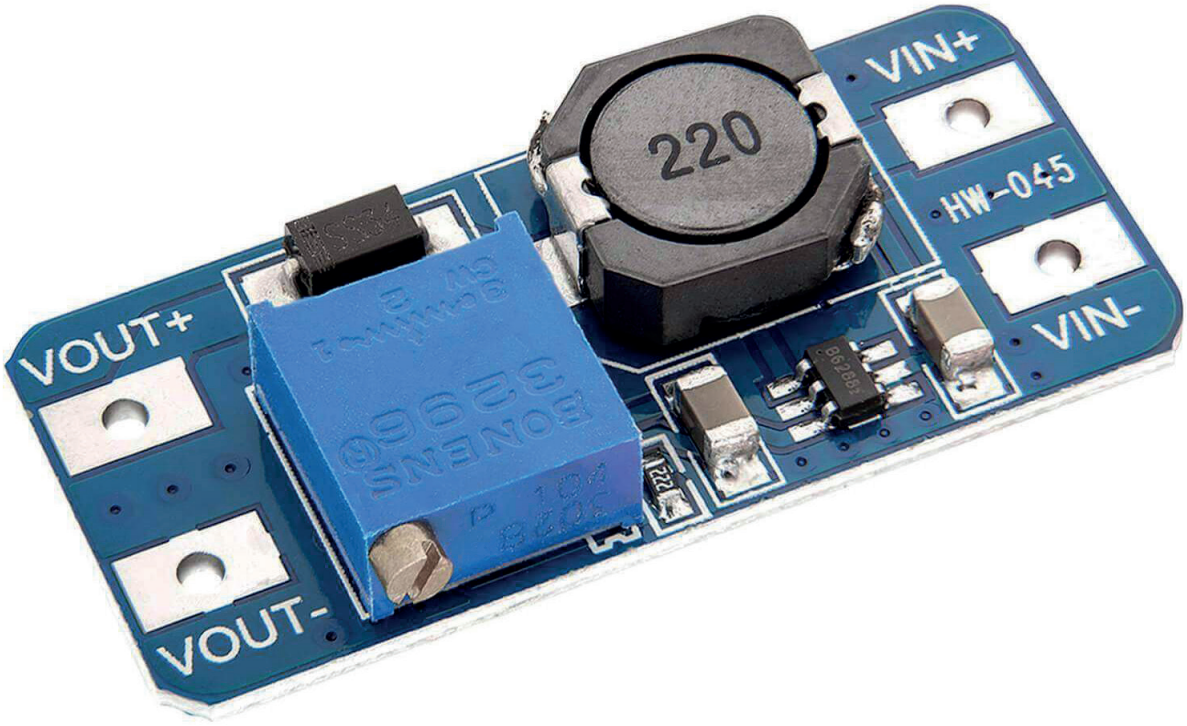
MT3608 Step Up Modul
Datenblatt



Content:

1. Features

- 2V to 24V Input Voltage
- 1.2MHz Fixed Switching Frequency
- Internal 4A Switch Current Limit
- Adjustable Output Voltage
- Internal Compensation
- Up to 28V Output Voltage
- Automatic Pulse Frequency Modulation Mode at Light Loads
- Up to 97% Efficiency
- Maximum output current: 2A
- Maximum output voltage: > 5V-28 v

Notes:
1. Input voltage should not exceed the maximum input voltage

2. Peak current output current does not exceed 2A

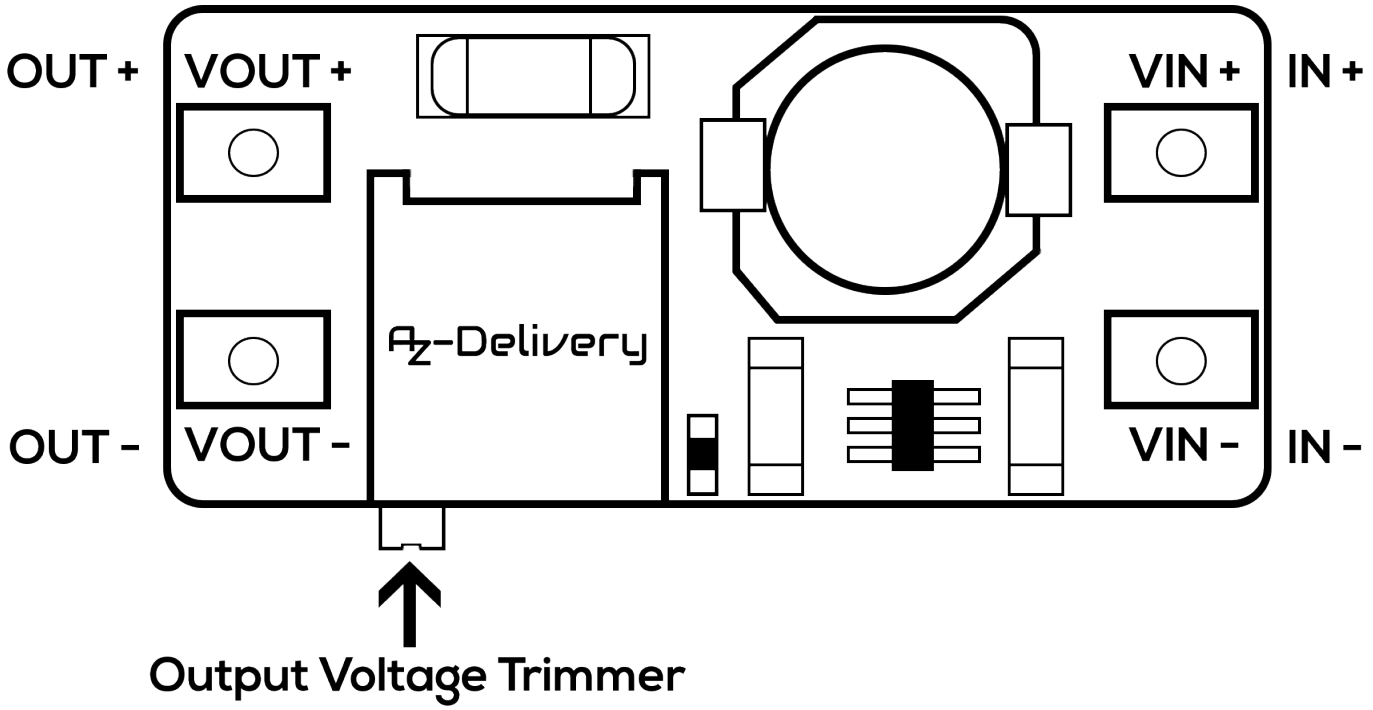
2. Absolute Maximum Ratings

VIN, EN Voltages	-0.3V to 26V
FB Voltages	-0.3V to 6V
SW Voltage	-0.3V to 30V
Power Dissipation	0.6W
Thermal Resistance θ_{JC}	130 °C/W
Thermal Resistance θ_{JA}	250 °C/W
Junction Temperature	160 °C
Operating Temperature Range	-40 °C to 85 °C
Storage Temperature Range	-65 °C to 150 °C

3. Electrical Characteristics

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
Operating Input Voltage		2		24	V
Under Voltage Lockout				1.98	V
Under Voltage Lockout Hysteresis			100		mV
Current (Shutdown)	V_{EN} = 0V		0.1	1	μA
Quiescent Current (PFM)	V_{FB} = 0.7V, No Switch		100	200	μA
Quiescent Current (PWM)	V_{FB} = 0.5V, Switch		1.6	2.2	mA
Switching Frequency			1.2		MHz
Maximum Duty Cycle	V_{FB} = 0V	90			%
EN Input High Voltage		1.5			V
EN Input Low Voltage				0.4	V
FB Voltage		0.588	0.6	0.612	V
FB Input Bias Current	V_{FB} = 0.6V	-50	-10		nA
SW On Resistance			80	150	mΩ
SW Current Limit	V_{IN} = 5V, Duty Cycle = 50%		4		A
SW Leakage	V_{SW} = 20V			1	μA
Thermal Shutdown			155		°C

4. Module Pinout



Note:
Output Voltage Trimmer adjusts Voltage after 20 laps of screw turning.

Two modes of Trimmer adjustment are available:
1. Clockwise: Buck
2. Counterclockwise: Boost

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