



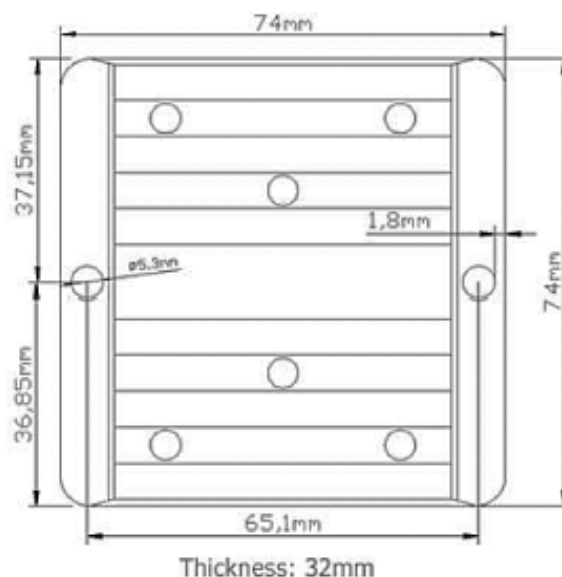
Features:

- Full power and stable current output
- Input voltage range of 18-32 Vdc
- 100% waterproof and shockproof protection, ultra-compact size and light weight
- Industrial DC24V to DC12V buck converter with efficiency up to 92%
- Certificate: CE/RoHS
- Waterproof grade: IP67
- Cast aluminum shell, epoxy potting, free air convection cooling,
- Protection: overcurrent, overvoltage, overtemperature,
- Overload and short circuit, automatic recovery when the equipment resumes normal operation
- Non-isolated module

Description

Q1708 is a DC/DC non isolated switch power converter, with an input voltage range of 18-32Vdc, an output voltage of 12Vdc, and a single output; It has protection functions such as input undervoltage, output overcurrent, and output short circuit. The topology designed for this product is a typical synchronous rectifier BUCK structure. The use of synchronous rectification MOS transistors instead of fast recovery rectification diodes greatly improves conversion efficiency (up to 92% or more), with low losses and low heat generation. In addition, the use of cast aluminum casing and silicone sealing enhances the heat dissipation effect while also playing a shockproof, waterproof, and dustproof role, greatly improving product reliability and service life.

Dimensions



Input and Output Lead length to be defined.

Please contact Vigortronix for any enquiries. Products can be altered to suit custom requirements.
The information contained in this document is subject to change without notice.

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Characteristics

Parameter	
Rated input voltage	12VDC
Input voltage range	18~32VDC
Efficiency	94%(half-load); 92%(full-load)
Output voltage	12VDC
Output current	15A
Rated output power	180W Max
Voltage regulation	<1%
Load regulation	<2%
Ripple (at full load)	<400mV
Unload current	<80mA
Working temperature	-40°C ~ +80°C
Waterproof grade	IP67
Protections	OLP, OCP, OTP, OVP, SCP
Wire length & colour	Length 155±5 mm, Red wire: VIN+ Black wire: VIN- White or Yellow wire: VOT+ Black wire: VOT-
Unit size	74 x 74 x 32mm
Unit weight	300g
Cooling type	Free Air Convection
Certifications	CE, RoHS
Packaging	Box or Static Bag Packaging

Applications

- Electric vehicle
- Electric bike
- Engineering vehicle
- Portable mobile devices
- Industry power station
- LED display
- LED lighting

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