



■ Features

- 1. Full power and stable current output
- 2. Imported chips
- 3. Input voltage range of 18-32 Vdc
- 4. 100% waterproof and shockproof protection, ultra-compact size and light weight
- 5. Industrial DC24V to DC12V buck converter with efficiency up to 92%
- 6. Certificate: CE/RoHS
- 7. Waterproof grade: IP67
- 8. Cast aluminum shell, epoxy potting, free air convection cooling,
- 9. Protection: overcurrent, overvoltage, overtemperature,
- 10. Overload and short circuit, automatic recovery when the equipment resumes normal operation
- 11. Non-isolated module

■ Description

KRE-DDx 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.

■ Applications

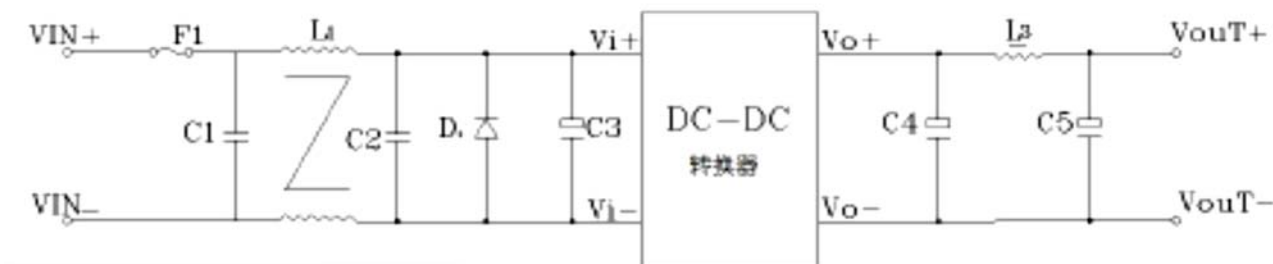
- Electric vehicle
- Electric bike
- Engineering vehicle
- Portable mobile devices
- Industry power station
- LED display
- LED lighting

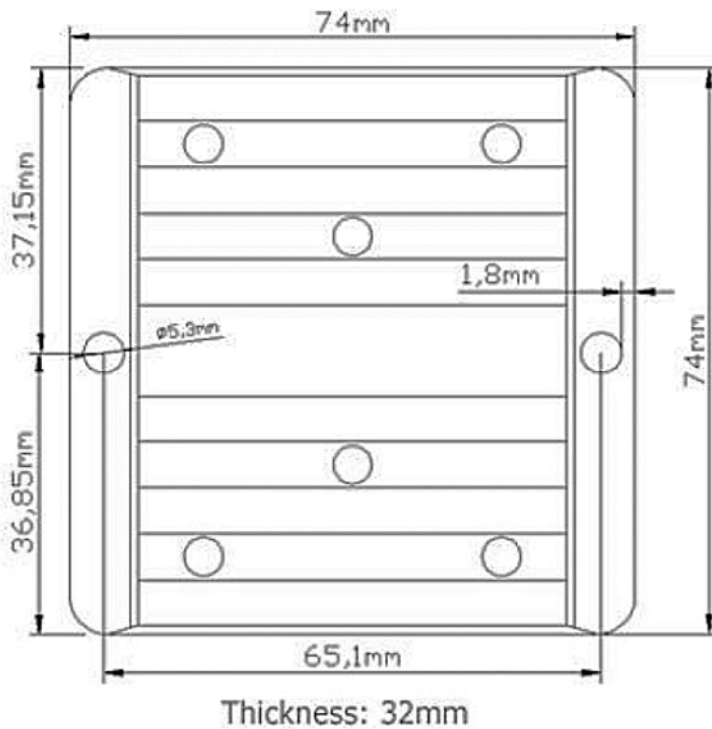


■ Characteristics

KRECO P/N	KRE-DD24S1215
Rated input voltage	24V Dc
Input voltage range	18-32V DC
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 & color	Length 155±5 mm; Red wire: VIN+ Black wire: VIN- White or Yellow wire: VOT+ Black wire: VOT-
Unit size	74*74*32mm
Unit weight	300g
Cooling type	Free Air Convection
Certifications	CE, RoHS
Other	Box or Static Bag Packaging

■ Product Application Schematic Diagram (for reference only):



■ Dimension Diagram Unit: mm

■ Note

- (1) X for variables, normally include input voltage, output voltage, output power watt.
- (2) Safety model number may differs from the order number, KRECO P/N number, and shape number as per respective OEM/ODM factories.
- (3) Please read this product specification carefully before use. If you have any questions, please contact our customer service personnel or technical support engineers for consultation.
- (4) Check the parameters of the power supply or battery used by your company. The total power must be greater than the nominal power of the product, and the recommended power is more than 2 times. The nominal voltage is equal to the input rated voltage of the product, at least within the specified range.
- (5) Fully understand the power of the equipment used by your company. It shall not exceed the nominal maximum power of the product. It is recommended that the actual power used is 70% ~ 80% of the nominal power. If the actual power used exceeds the nominal power, please select a converter with higher power.
- (6) the product is a high power density product, need to strengthen the heat dissipation, the greater the actual use of power, need to increase the radiator to be larger, or use air cooling mode to dissipate heat.
- (7) Please carefully check whether the wiring is correct before electrifying, and the polarity must not be wrong, otherwise the product will be directly and permanently damaged.
- (8) It is specially emphasized that this product is a step-down constant voltage converter. If it is damaged due to improper use, the input voltage will be directly output. If the power supply cannot be cut off in time, the product and the equipment supplied with power will be burned. In order to effectively prevent losses, the actual input current must be calculated or measured according to the actual power used, and the fuse with appropriate current value shall be selected. Generally, the fuse with 150% ~ 200% of the actual current shall be selected. If the normal working input current is 10 A, 15 A ~ 20 A can be selected. If there is a large start-up impact current, the fuse should be increased appropriately.

Disclaimer: KRECO is not responsible for any error, and reserves the right to make changes without notice. Please visit our website at www.kreco.com.cn for the most up-to-date specifications and contact information.