

RECOM RMOD360-UW Series Single Output DC Converter



RECOM RMOD360-UW Series Single Output DC Converter Instruction Manual

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RECOM RMOD360-UW Series Single Output DC Converter



Specifications

Product Name: RMOD360-UW Series DC/DC Converter

Model: RMOD360-80-24.5SUW

Input Voltage Range: 18-106VDC

Output Protections: Short circuit, over current, over temperature, input reverse polarity protection up to -106VDC

Product Usage Instructions

Installing the Device

WARNING: Electrical danger due to improper installation of the power supply unit can cause serious injury, burns, or death.

1. Before any installation or maintenance work, disconnect and lock off the mains supply and secure it against accidental connection.
2. Mounting orientation can be done in any direction.
3. Mount the DC/DC converter on a cooling metal surface.

Putting the Device into Operation

Important! Before applying power, ensure that the rated output current and voltage of the power supply meet the requirements of the application.

Derating: See derating information provided (refer to Fig. 3).

Faults and Troubleshooting

Depending on the degree of protection mechanism, the device automatically restarts after the fault condition is removed.

Dismantling and Disposing of the Device

The EG WEEE (Waste Electrical and Electronic Equipment) Directive applies to this product. Always dispose of packaging material and electrical devices or components via authorized collection or disposal points, not in household waste.

FAQ

Q: What should I do if I encounter a fault condition with the DC/DC converter?

A: Depending on the degree of protection mechanism, the device will automatically restart after the fault condition is resolved. If you encounter persistent issues, contact RECOM Techsupport for assistance.

General information

For your own safety, read the safety information before installing the power supply and putting it into operation. Keep these instructions and the safety information as an important part of the product. Pass them on to any subsequent owner. For support and additional information, please visit www.recom-power.com.

Required knowledge and responsibility areas of the user/ operator

- This device may only be installed and put in operation by qualified personnel.
- There are no user-serviceable parts inside. Do not modify or repair the unit.
- Check the device for visible defects before each use
- The device may only be operated within the specified technical specifications
- Incorrect operation and improper installation can endanger your safety.

State of the art

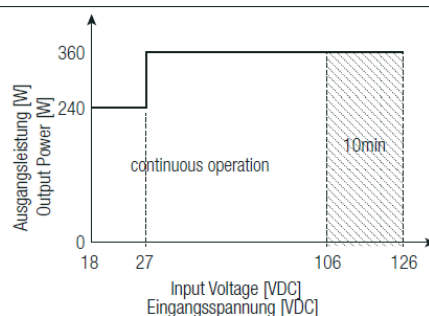
The DC/DC converter is tested in accordance with the following directives and standards:



- CE (RoHS2, LVD)
- UL
- UKCA

Intended use

This product is a built-in DC-DC converter. The equipment shall be supplied from a DC source. The DC/DC converter is suitable for input voltages in the range of 18-106VDC (refer to Fig. 4). DC/DC converter is protected against output short circuit, output over current, over temperature and has also an input reverse polarity protection up to -106VDC



Installing the device

WARNING Electrical danger due to improper or faulty Installation of the power supply unit!

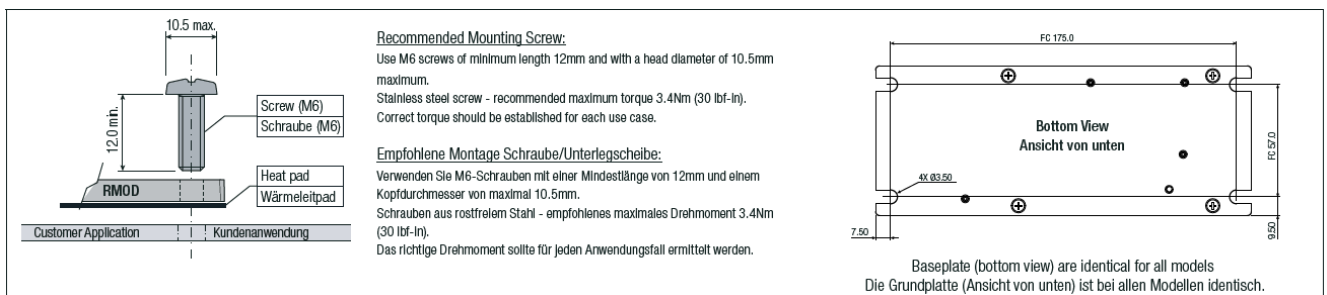
Can cause serious injury, burns or death.

- Follow the following RECOM step-by-step instructions
- Do not make any changes to the power supply
- Contact RECOM Techsupport if you have problems

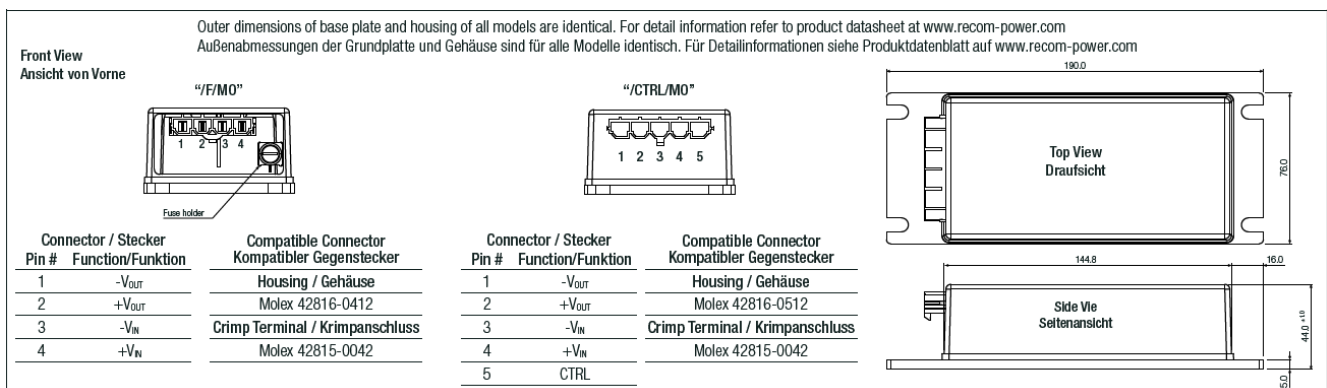
To install the device, proceed as follows:

Step Description

1. Before any installation or maintenance work, disconnect and lock off the mains supply and secure it against accidental reconnection.
2. Mounting orientation can be done in any direction.
3. Mount the DC/DC converter on a cooling metal plate surface and ensure that the maximum allowed baseplate temperature is not exceeded. Use an heating pad between the DC-DC converter and the metal cooling surface in order to maintain good thermal contact. Refer to Fig. 3
4. The converter must be mounted with at least 4x M6 screws to ensure a secure installation. Refer to Fig. 1



5. The converter must be connected with the prescribed connectors. Refer to Fig. 2



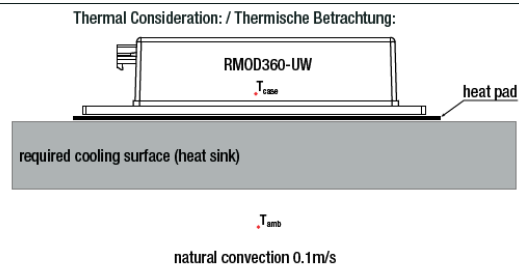
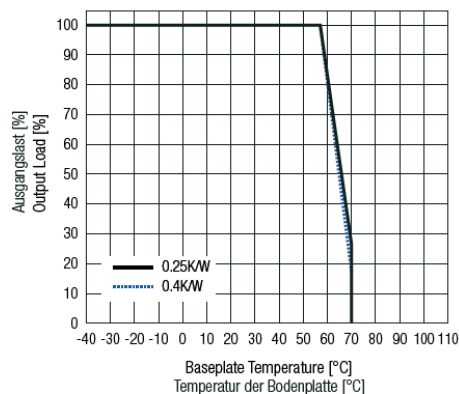
6. Any usage which does not comply with the specifications may decrease the performance or damage the device.

Putting the device into operation

Important! Before applying power, ensure that the rated output current and voltage of the power supply meet the requirements of the application.

Derating .

See derating below (Fig. 3)



The module can be used in enclosed applications, as long as the cooling is sufficient to keep the baseplate temperature below 70°C. The surrounding temperature should not exceed 75°C.

Das Modul kann in geschlossenen Applikationen eingesetzt werden, solange die Kühlung ausreicht, um die Temperatur der Grundplatte unter 70°C zu halten. Die Umgebungstemperatur sollte 75°C nicht überschreiten.

Safe operation

- Operate the DC/DC converter only according to the conditions and the ambient temperatures listed in the Specifications.

The unit should:

- not be operated if defective
- not be operated under full load without sufficient cooling
- be installed in a controlled environment compliant with pollution degree 2 (PD2)

Faults and troubleshooting

Depending on the degree of protection (a mechanism), the device restarts automatically after the fault condition is removed.

Liability and warranty

- RECOM Power GmbH assumes no responsibility and no liability for damages if:
- the unit is used for purposes not listed in the Intended use section
- the unit is operated outside of the specification
- the unit is modified in any way
- the unit is improperly installed
- the unit is operated in a defective condition
- the unit is exposed to corrosive chemicals or gasses
- the documentation is not kept up to date

Dismantling and disposing of the device








- Disconnect the dc-dc converter
- Uninstall the dc-dc converter

The EG WEEE (Waste Electrical and Electronic Equipment) Directive applies to this product. Always dispose of packaging material and electrical devices or components via authorized collection or disposal points, not in household waste.

Installation and Operating Instructions

Other applicable document:
Important Safety Information

Product printing symbol and safety mark description

Symbol	Description / Beschreibung
	This product bears the marking required by Directives 2014/30/EU and 2014/35/EU. With the CE mark, RECOM declares that the product complies with the essential requirements and directives of the European regulations. Dieses Produkt ist mit der nach Richtlinie 2014/30/EU und 2014/35/EU vorgeschriebenen Kennzeichnung versehen: Mit dem CE Zeichen erklärt RECOM, dass das Produkt die grundlegenden Anforderungen und Richtlinien der europäischen Bestimmungen erfüllt.
	Height: >5mm (unless a different minimum dimension is specified in the relevant legislation. If you reduce or enlarge the the size of the marking the letters must be in proportion Höhe: >5mm (es sei denn, in den einschlägigen Rechtsvorschriften ist ein anderes Mindestmaß vorgeschrieben. Wenn Sie die Größe der Kennzeichnung verkleinern oder vergrößern, müssen die Buchstaben im gleichen Verhältnis stehen.
	Read instruction before use! Anleitung vor Gebrauch lesen!
	UL Recognized Component Mark, this indicates compliance with both Canadian and U.S. requirements. UL anerkannte Komponenten Marke, dies zeigt die Übereinstimmung mit den kanadischen und US-amerikanischen Anforderungen an.
	The EG WEEE (Waste Electrical and Electronic Equipment) Directive applies to this product. Always dispose of packaging material and electrical devices or components via authorized collection or disposal points, not in household waste. Das Produkt entspricht dem EG WEEE Elektro- und Elektronikgerätegesetz. Entsorgen Sie das Verpackungsmaterial und die Elektrogeräte und deren Komponenten immer über die hierfür autorisierten Sammelstellen oder Entsorgungsbetriebe! Nicht über den Hausmüll entsorgen!
	Lead Free symbol according to RoHS 2011/65/EU + AM2015/863 Bleifrei-Symbol gemäß RoHS 2011/65/EU + AM2015/863
	RECOM Power Trademark RECOM Power Markenzeichen

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Documents / Resources

	RECOM RMOD360-UW Series Single Output DC Converter [pdf] Instruction Manual RMOD360-UW Series Single Output DC Converter, Single Output DC Converter, Output DC Converter, DC Converter, Converter
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References

- [Homepage | Power Integrations](#)
- [User Manual](#)

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