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# DC/DC CONVERTER

**24V-24V / 40A & 60A**  
GALVANIC ISOLATED



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**PRIMEPOWER™**  
PART OF MICROPOWER GROUP

## CRITICAL INFORMATION

The technical data, information and illustrations have been carefully compiled and corresponds to the product status at the time of printing this manual. The manufacturer reserves the right to improve or modify the product, specifications and documentation at any time without prior notice, provided that it is not considered necessary for technical reasons.

Descriptions have been prepared very carefully and in detail, yet it is never possible to completely rule out wrong. Under no circumstances will the manufacturer be held responsible for errors or damages resulting from wrong use or from misinterpretation.

The content of this documentation may not be copied, reproduced, translated or otherwise passed on to third parties in any form without the express written consent of Primepower.

### Warning!



Failure to follow these safety instructions could result in personal injury, property damage or impair the function of the product.

### Danger! High voltage!



Failure to follow this safety instruction can result in injury or death, or may damage or destroy the product.

### Important Information!



To avoid operator error, read this manual carefully before installing and using the product and follow the appropriate instructions. Keep this manual near the product so that it can be referred to later.



This product is not intended for use by persons (including children) with reduced physical sensory or mental capabilities, or lack of knowledge or experience, unless they have received instructions or information on how to use the product by a person responsible for their safety. Children should be supervised to ensure that they do not play with the product.

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## USER MANUAL

- Read this instruction before the DC/DC is taken into use.
- Keep this manual within easy reach for the user of this DC/DC converter.

### General

This product from Primepower is a high efficient, intelligent and very compact DC/DC charger with the latest switch mode technology in power conversion. Suitable for all DC applications where a secured and stable 27,2 VDC voltage is needed. The internal electronics controls input and output current and is both overload and short circuit protected.

All electronics are potted with polyurethane which makes the unit completely waterproof and very shock resistant.

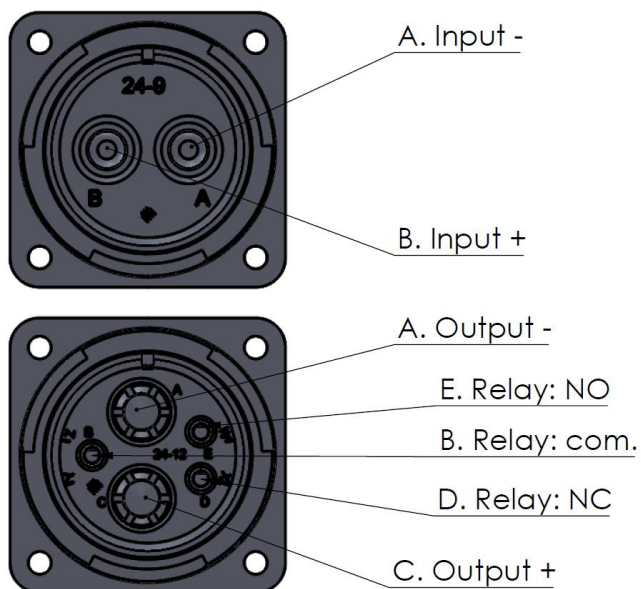
The unit has no LED indications on the outside of the unit for black-out purpose as well as no ON/OFF function button. An external LED can be connected for Power ON indication.

As the unit acts like a stable power supply, the voltage will always be stable at 27,2V as long as the input voltage is between 18-32VDC and the unit will always be able to provide the specified current.

### Installation

Check that the correct input voltage range and output voltage range matches the installation and the parameters mentioned on the DC/DC. The DC/DC enclosure is IP67, the internal electronics has a protective layer of lacquer. This brings the DC/DC suitable for indoor mounting, outdoor mounting in vehicles, in boats or built into the current machine.

DC-in & out connection according to **VG95234**.



### STANDARDS

- MIL-STD 461 F, Army ground applications
- MIL-STD 1275D
- Vibration/shock according to IEC 60028-2-6
- Humidity IEC 68-2-30 100% non-condensing

## TECHNICAL SPECIFIKATION

MODELL	MIL DC/DC 24-24V 60A	MIL DC/DC 24-24V 40A
Article number	0060392	0060391
Input voltage	18-32 VDC	18-32 VDC
Output voltage	27,2 VDC	27,2 VDC
Output current	60A	40A
Ambient temperature	-46C° – +55C°	-46C° – +55C°
Efficiency	>95%	>95%
DC-in connection	Glenair CA3102E	Glenair CA3102E
DC-out connection	Glenair CA3102E	Glenair CA3102E
Encapsulation	IP67	IP67
Measurments (W x L x H)	160 x 144 x 101 mm	160 x 144 x 101 mm
Weight	2,5 Kg	2,3 Kg

## INCLUDED IN THE PACKAGE

PRIMEPOWER DCDC MANUAL



PRIMEPOWER DCDC converter



## WARRANTY

**WARNING!**

**Do not use this product without reading the entire manual! Incorrectly installed or use of the product can sincerely damage the user, destroy the product or connected equipment. If the product is used the wrong way, warranty may be void.**

- Primepower warranty applies only to original purchaser within a period of 24 months from the date from delivery.
- Primepower guarantees that the product is in excellent condition upon delivery, unless comes full refund.
- If the user has not conducted a proper installation or used the product incorrectly applies no warranty.

### Warranty claim

To take advantage of warranty please contact your retailer.

Please have following information available:

- Receipt
- Model number
- Product serial number
- A brief description of the malfunction



