
Product Specification

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DCDC Equalizer 24/12 30A 500W IP 67



Art 0060370 IP

2026-05-18	Utg 4	P101-053				
MH	DCDC Equalizer IP67				0060370 IP	

General description

The Primepower DCDC Converters is a highly efficient, intelligent and very compact DCDC converter. Suitable for all applications where a highly efficient conversion of DCDC voltage are required. The switch mode design includes the latest component and technology in power conversion. The internal electronics controls the output and input current and prevents the device from overcurrent, short circuit, and overload. The product is suitable in marine, automotive, industrial applications.

Features

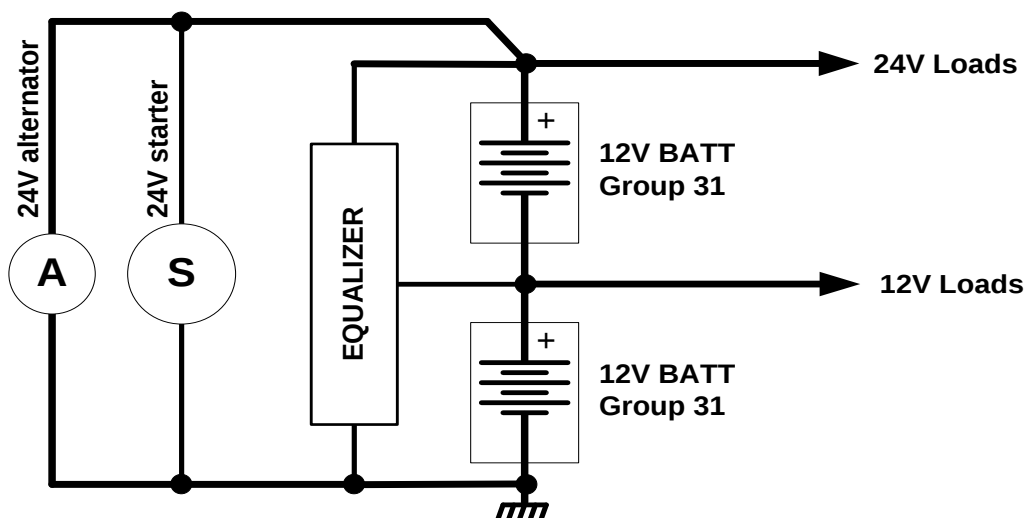
- Latest MosFET technology
- High efficiency, >96%, 98% at full power, cool running
- Quiescent current < 6mA
- IP67
- Small and easy to install

Part number / order information

Primepower part number	Specification
0060370IP	24V-12V 30A 500W

Theory of operation

The Primepower DCDC equalizer will keep the charging balance between 12Volts battery serial connected in a 24Volts system. The output voltage will always be kept at a level of 50% of the supplying voltage.



The input DC voltage conversion is done by a high-end topology with high end components. This secures the high efficiency of >96%. The low weight and small

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size keep the installation simple. The efficiency results in a very low surface temperature (less 55 degrees) on the casing.
 All models can have an on/off function to remotely control of the operation.
 Easy to install with loose cable ends, suitable connector can be connected.

Descriptions of features

The complete electronics is mounted in an aluminium housing. The electronics are sealed completely with potting resin. Water, oil or other substances will thereby be effectively kept out. The converter can be mounted in harsh environment. With stand vibration and environment according to automotive standard ISO 16750.

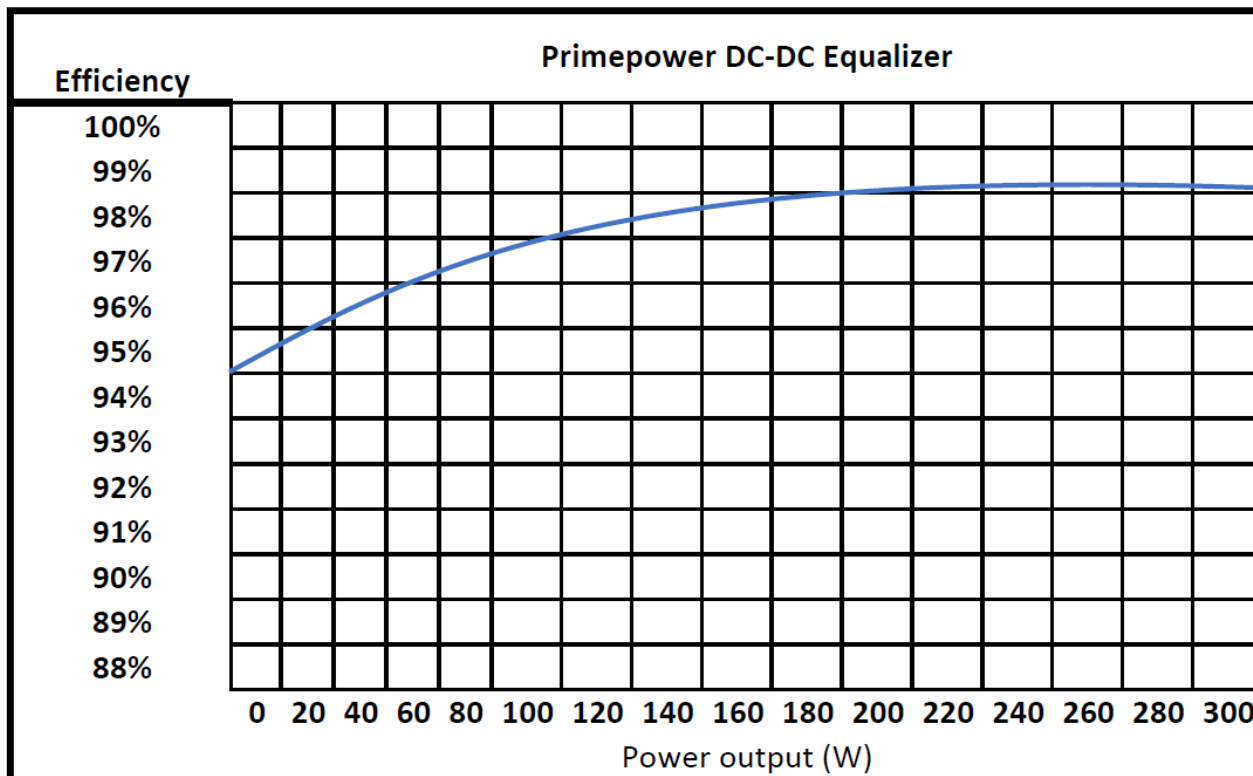
Electrical specifications

Equalizer 24-12 30Amp			0060370 24V-12V 500W	Unit
Characteristics		Conditions	Typ	
V_o	Output voltage	50% of V_{in}	(14,4) +/- 0,5%	V
V_{in}	Input voltage	$V_{i\ nom}$, $I_{o\ nom}$	17,0 40.0	
$I_o\ L$	Output current limit	30Amp	Yes	

Electrical Characteristics

Unless otherwise stated, conditions apply to full temperature range and full input voltage range.

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Environmental Specifications

Parameter	Level	Conditions / Notes
Operating temperature	-40°C to +70°C	reduced output from +50°C
Storage temperature	-40°C to +95°C	
Humidity	0 – 100 %RH	
Water	IP67	
Mechanical Vibration	40G	according to standard IEC 60068-2-6
Handling Shock		may show damage
Transient voltage		meets ISO7637-2
Isolation voltage (isolated versions only)		>500Vrms

Mechanical specifications

Models:

The unit utilizes loose end cables, 6mm², 50cm

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Four mounting holes with diameter of 8,2 mm.

Finish: RAL 6007, Aluminium housing

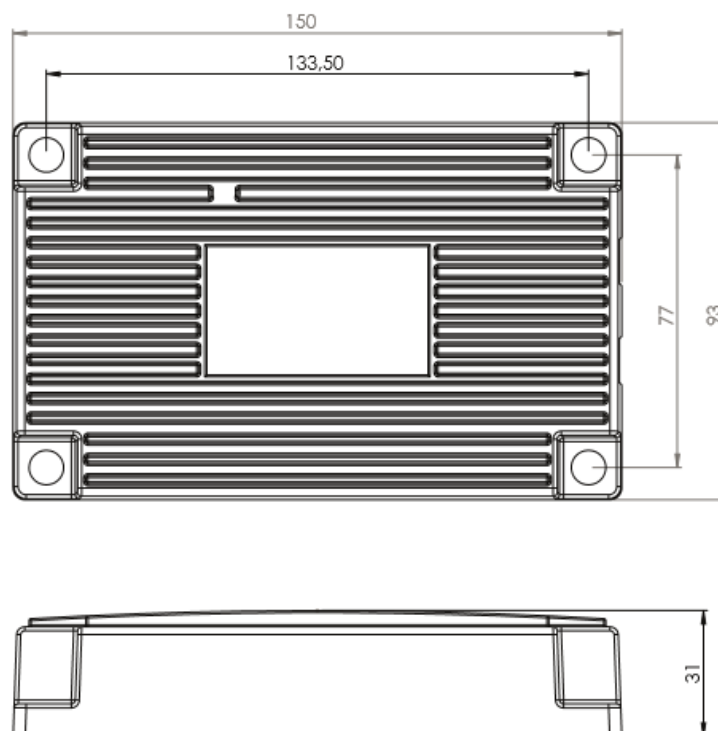
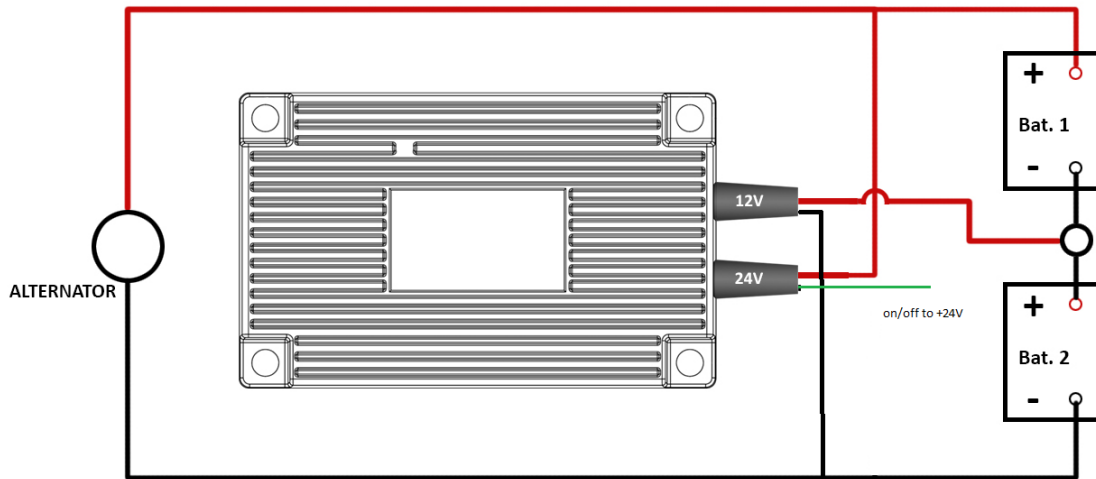
Mounting Slots: 4x, Accepts M8

Weight: 820gr

Unit Dimensions: 150 x 93 x 31 in mm

Connection and installation:

Mount the DCDC with cable downwards. This will maintain an efficient cooling and a maximum output current during the use.



Approvmnts

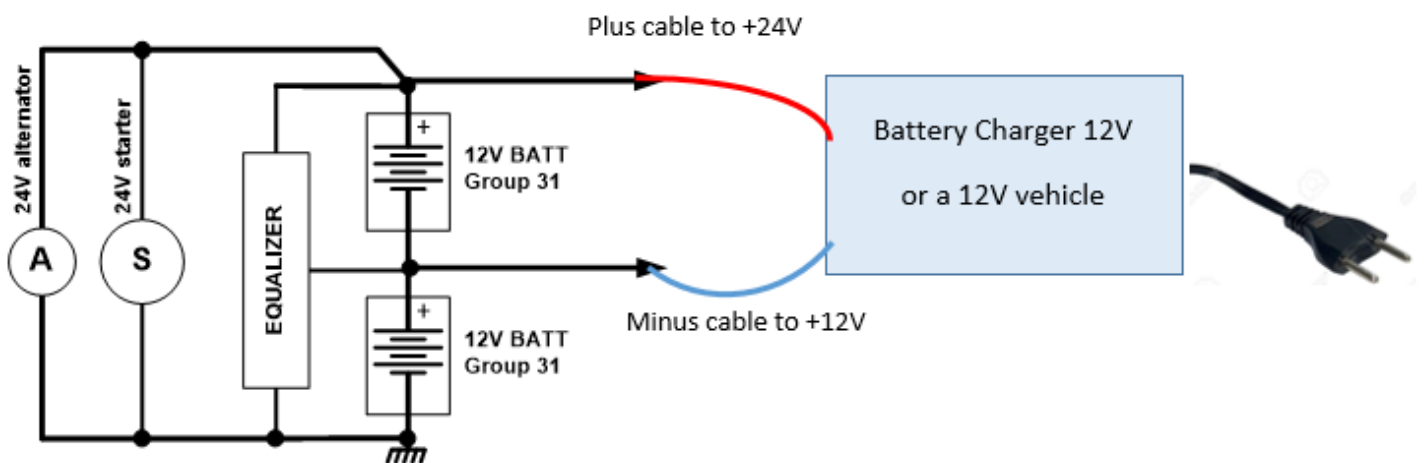
EMC Directive, 2014/35/EC

MIL 461, 1275 in Progress.

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Jumpstart function from 12Volt

The Equalizer has an inverted function which allows to fully charge both batteries from a single 12V source. Simply connect a 12V charger to the HSB battery as showed below. Both batteries will be equally charged. This feature will also allow to jump start a 24V vehicle by connect it to a 12V vehicle. The current is limited to 30Amp.



Cable connections:

Single RED Cable 6mm² to + HSB (+ 24V)

Paired RED and BLACK 6mm² to LSB (12V)

Green thin lead: on/off function, connect to +24V to start.

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