ePOWER

DC2DC POWER PRODUCTS

Enerdrive
DRIVING YOUR ENERGY NEEDS
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12V & 24V VSR Relays


EN-VSR1224-100


EN-VSR1224-160

Programmable Low Battery Cut-Outs


EN-LBC1224-10


EN-LBC1224-40


EN-LBC1224-60


EN-LBC1224-200

Charging Diode Splitters


EN-BI-160-2


EN-BI-160-3

DC to DC Converters with Galvanic Isolation


EN-DC1212-15G


EN-DC1212-25G


EN-DC1224-7.5G


EN-DC1224-12G


EN-DC1224-12.5G


EN-DC2412-15G


EN-DC2412-25G


EN-DC2424-7.5G


EN-DC2424-12.5G


EN-DC4812-15G


EN-DC4812-25G


EN-DC4824-12.5G


EN-DC4848-3.2G


EN-DC4848-6.2G

DC to DC Converters Non Isolated


EN-DC1224-10


EN-DC2412C-20


EN-DC2412C-30


EN-DC2412C-60


EN-DC2460-12C

DC Motion Sensors


EN-DCMOTION-L


EN-DCMOTION

12V & 24V VSR Relays

The Enerdrive ePOWER VSR Battery Separator is an Essential Part of Your Dual Battery System.

The ePOWER VSR or voltage sensitive relay is essential for systems that utilises more than one battery. When the engine is started, starting & auxiliary batteries are separated allowing only the starting battery to be charged. When the charge voltage reaches 13.2 Volts the VSR engages allowing both starting and auxiliary batteries to be charged. When the engine is stopped and the battery voltage falls below 12.8 Volts the VSR disengages separating the start and auxiliary batteries. The auxiliary battery continues to power any accessories without risk of draining the starting battery.

Additionally, the ePOWER VSR range offers features like :

- No voltage loss
- Intelligent battery monitoring to prevent unwanted switching
- Starter battery priority
- Bipolar switching
- Voltage dependent switching

Applications

- Marine
- Caravans
- Camper vans
- Rv's

		
Model Number	EN-VSR1224-100	EN-VSR1224-160
Auto Voltage Detect	12 / 24V	
Continuous Current (A)	100	160
Connect Voltage (V)	13.2 / 26.4	
Disconnect Voltage (V)	12.8 / 25.6	
Standby Current	<3mA	
Connection for remote on / off	Yes	
Micro switch for remote status indication		LED
Weight (kg)	0.11	0.47
Dimensions L x W x H (mm)	46 x 46 x 80	108 x 72 x 58

Programmable Low Battery Cut-Outs

The Enerdrive ePOWER Low Battery Cutoff Switch Protects Your Batteries Without The Use Of A Relay.

The ePOWER Low Battery Cutoff protects your batteries from non essential loads before the battery is completely discharged causing damage to batteries and potently denying your engine cranking power. These Low Battery Cutoffs also protect connected electrical appliances against over voltage. The voltage load is disconnected whenever the DC voltage goes beyond 16V (12V mode) or 32V (24V mode).

Microprocessor Controlled

The ePOWER LBC is microprocessor controlled with 10 different programs that engage or disengage the voltage load over several different voltage parameters.

Additionally, the ePOWER LBC range offers features like :

- Over-voltage Protection
- Ignition proof (no relay, no spark)
- Delayed alarm output
- Delayed load disconnect

Applications

- Recreational vehicles
- Service vehicles
- Maritime applications

				
Model Number	EN-LBC1224-10	EN-LBC1224-40	EN-LBC1224-60	EN-LBC1224-200
Auto Voltage Detect	12 / 24V	12 / 24V	12 / 24V	12 / 24V
Max Load (shut down current)	10 - 15A	40 – 45A	60 – 65A	200 – 210A
Peak current	75A	120A	120A	480A
Weight (g)	20g	185g	185g	730g
Dimension LxWxH	62 x 27 x 9 mm	82 x 65 x 41 mm	82 x 65 x 41 mm	120 x 112 x 61 mm

Charging Diode Splitters

The Enerdrive ePOWER Battery Isolator Charges 2 or More Batteries From 1 Alternator.

The ePOWER battery isolators can be used for marine, recreation vehicles or commercial vehicle applications where one or two house batteries are present in addition to a cranking battery. These battery isolators allow charging two or more batteries at the same time from a single charging source, without connecting the batteries together. The Enerdrive battery isolators feature a low voltage drop thanks to the use of high efficiency Schottky diodes: at low current the voltage drop is approximately 0,3 V and at the rated output approximately 0,45 V.

Applications

- Marine installations
- 4WD's and Recreation Vehicles
- Trucks and Commercial Vehicles

		
Model Number	EN-BI160-2	EN-BI160-3
No of Batteries	2	3
Max. Alternator Current	160A	
Max. Charge Current	130A	
Weight (kg)	1.1kg	1.5kg
Dimensions LxWxH	150 x 120 x 60 mm	200 x 120 x 60 mm

DC to DC Converters with Galvanic Isolation

Quality DC To DC Converters Featuring Galvanic Isolated Input And Output Terminals.

The ePOWER DC to DC galvanic isolation converters are interference free resulting in stable, reliable and efficient power supply. These compact and rugged units omit little heat making them safe and convenient for installation where space is hard to come by. Enerdrive's DC to DC galvanic isolation converters use Switch Mode technology with protection against over-current / overload, over-heating, over-voltage and reverse polarity connection. Units can be paralleled multiple times to increase overall output. Models with 27.6V output can also be used as a 24V battery charger.

Applications

- Recreational vehicles
- Commercial vehicles
- Industrial systems
- Communication vehicles
- Maritime applications
- Aviation applications

					
Model Number	EN-DC1212-15G	EN-DC1212-25G	EN-DC1224-7.5G	EN-DC1224-12G	EN-DC1224-12.5G
Input (VDC)	9 – 18				
Output (VDC)	12.5		24	27.6	24
Current (A)	15	25	7.5	12	12.5
Load (W)	200	360	200	360	360
Weight (g)	600g	1400g	600g	1400g	1400g
Dimension	182 x 88 x 49 mm	160 x 163 x 64 mm	182 x 88 x 49 mm	160 x 163 x 64 mm	160 x 163 x 64 mm

DC to DC Converters with Galvanic Isolation (Continued)

				
Model Number	EN-DC2412-15G	EN-DC2412-25G	EN-DC2424-7.5G	EN-DC2424-12.5G
Input (VDC)	20 – 35			
Output (VDC)	12.5		24	
Current (A)	15	25	7.5	12.5
Load (W)	200	360	200	360
Weight (g)	600g	1400g	600g	1400g
Dimension	182 x 88 x 49 mm	160 x 163 x 64 mm	182 x 88 x 49 mm	160 x 163 x 64 mm

					
Model Number	EN-DC4812-15G	EN-DC4812-25G	EN-DC4824-12.5G	EN-DC4848-3.2G	EN-DC4848-6.2G
Input (VDC)	30 – 60				
Output (VDC)	12.5		24	48	
Current (A)	15	25	12.5	3.2	6.2
Load (W)	200	360	360	200	360
Weight (g)	600g	1400g	1400g	600g	1400g
Dimension	182 x 88 x 49 mm	160 x 163 x 64 mm	160 x 163 x 64 mm	182 x 88 x 49 mm	160 x 163 x 64 mm

DC to DC Converters Non Isolated

Quality DC to DC Non Isolated Converters that supply stable power to 12 volt equipment.

The ePOWER DC to DC non isolated converter supplies stable and efficient power to your low voltage systems such as marine navigation and radio equipment, car hi-fi systems and mobile phone chargers. Poor power supply to your on-board 12V equipment can cause major damage and result in costly replacement of electronic appliances. By installing a ePOWER DC to DC converter you will avoid damage and save the headache of equipment replacement. All models with 13,8 V output can also be used as a 12 V battery charger. Units can be paralleled multiple times to increase overall output.

Applications

- Recreational vehicles
- Commercial vehicles
- Industrial systems
- Communication vehicles
- Maritime applications

					
Model Number	EN-DC1224-10	EN-DC2412C-20	EN-DC2412C-30	EN-DC2412C-60	EN-DC2460-12C
Input (VDC)	9 – 18	20 – 35			24 – 60
Output (VDC)	25	13.8			12.3
Current (A)	10	20	30	60	6
Load (W)	250	276	414	828	74
Weight (g)	500g	477g	600g	1200g	240g
Dimension	126 x 88 x 49 mm		151 x 88 x 49 mm	176 x 88 x 98 mm	86 x 88 x 49 mm

DC Motion Sensors

P.I.R. Sensor Motion Switch.

The ePOWER DCMotion is a motion activated switch for 12v and 24v systems for which a Passive Infra-Red Detector (PIR) is used. Output loads up to 10A (continuous) can be connected to the EN-DCMOTION with the added features of over-voltage, under-voltage and over-current disconnect. For indoor use only. The DCMotion can be used in a number of situations like yacht or ship engine rooms, undercover truck loading bays or RV applications.

The ePOWER DCMotion-L is a motion activated LED lamp for 12v and 24v systems for which a Passive Infra-Red Detector (PIR) is used. This unit has a built in high efficiency Power CREE LED (1 Watt). The DCMotion-L switches the load as soon as motion is detected. If no motion is detected any more the DCMotion-L switches off with a delay. The delay time can be set by way of an internal potentiometer. This is done in steps of 5 seconds. The minimum delay time is 5 seconds and the maximum delay time is 60 seconds. Default is a delay time of about 30 seconds. The load will be disconnected 30 seconds after the last motion is detected.

Applications

- Recreational vehicles
- Industrial systems
- Service vehicles
- Maritime applications

		
Model Number	EN-DCMOTION	EN-DCMOTION-L
Auto Voltage	12VDC / 24VDC	
Switch Off Time	5 min. *	
Power up delay	+ / – 30 Sec.	
Detection Angle	60° H – 60° V	
Detection Parameter	5 meters	
LED Light	No	Yes
Weight	30g	107g
Dimension LxWxH	76.5 x 48.5 x 30mm	67 x 50 x 30mm

* Switch Off time is adjustable between 1 – 10 min.

DC2DC ePOWER charger

The all new ePOWER 30A DC to DC Battery Charger. Designed to meet the rugged demands of Australian conditions and delivering multiple source charging for DC systems.

- Two totally independent DC Inputs for both engine and solar regulation charging one house battery bank output
- DC M6 screw terminals that will allow for large battery cable connection between all sources
- A dedicated Maximum Power Point (MPPT) solar regulator
- The same battery algorithms as included in our AC mains ePOWER battery charger including a specific lithium charging profile
- 30A output up to 40+°C with thermo controlled fan cooling
- Fully programmable LCD display to show which source is charging the battery along with charger status, voltage and amperage
- Temperature sensor included in charger for more accurate battery charging

Enerdrive
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To Find Out More About Our Range Of DC Products
Visit www.enerdrive.com.au Or Phone 1300 851 535