

# Constant, stable power for sensitive loads



Safety, comfort, efficiency and productivity are paramount when it comes to the devices we rely on during those long hauls. Electrical noise and instability can be the enemy of these sensitive devices, where clean and stable power is critical.

So, before you hit the road, make sure you get the built-in protection and power you need from one of REDARC's DC Power Supplies (DPS).

Choose from our line-up of DC Power supplies that are equipped for 12 or 24 volt outputs and provide regulated power from a 9 to 32 volt input.

Built and designed around the award-winning In-vehicle Dual Battery Charger platform, DPS units provide constant, regulated power for all types of loads.

DPS units are available in 12 volt (25 amp and 40 amp) or 24 volt (10 amp and 20 amp) variants, each with three user selectable output voltages (12.0, 13.7 and 14.5 volts or 24.0, 27.4 and 29.0 volts), designed to suit the specific requirements of any load.

## Look at all the benefits...

- Power hi-tech radio systems without any interference
- Designed to provide a stable output for any auxiliary load
- Designed for the harshest conditions
- Suited for commercial applications
- Based on the award-winning In-vehicle Dual Battery Charger platform



# DC Power Supplies

REDARC DC Power Supplies provide constant regulated power for sensitive loads from lamps and radios to refrigerators and televisions.

The REDARC DC Power Supply range comes with selectable voltage outputs of 12 or 24 volt variants, each with three selectable output voltages, providing regulated power from a supply source that can charge between 9 and 32 volts.

This allows you to select the right voltage required for the application at hand, from radios to measuring equipment for a more precise power feed.

DPS units are fully encapsulated in a gel elastomer enabling the DPS to be installed anywhere on a vehicle and can be used in marine applications.

LEDs on the front display panel indicate when the DC Power Supply is operating and displays wiring fault codes for easy diagnosis.

The robust state-of-the-art design of the DC Power Supply ensures protection from reverse polarity, spikes or surges, short circuit, overload and over temperature.

The DC Power Supply generates little electrical noise enabling the unit to power hi-tech radio systems without radio interference and can supply constant power to all types of loads.

## Don't lose your volts

Increased demands are placed on our vehicles with every passing mile. Many devices related to these demands - communications equipment, computers, measurement devices and precise actuators, are quite sensitive when it comes to the power they receive from the source. However, power is not always clean and stable. At best it can cause poor performance or at worst cause damage to these devices.

In a typical heavy vehicle setup there are a few major causes of electrical noise or instability.

This includes:

- Vehicle charging and starting systems requiring the correct voltage to be applied
- Loads like compressor fridges, radios and waterpumps causing short voltage drop
- High current consumers like engine starter motors or electric pumps causing electrical noise
- The vehicle alternator causing electrical noise, affecting sensitive devices

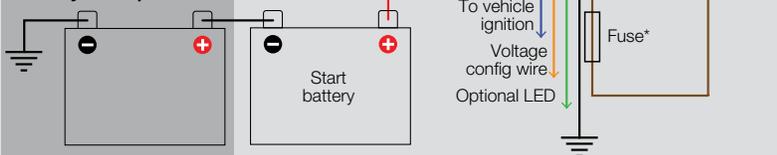
This can cause lights to be more dull or bright, inconsistent radio strength, fridge efficiency and performance dropping with voltage, inaccurate measurements being taken, and actuator speed and strength can suffer. Electrical noise can also cause excessive heat and interference resulting in damage to electronic components or internal batteries and poor performance during operation particularly on radio and measurement equipment.

The solution is a REDARC DC Power Supply, which can deal with a diverse range of noise and voltage levels. Whether it is a 12 or 24 volt vehicle running a 12 or a 24 volt appliance, requiring a clean and stable specific power supply, the DPS range will provide this power in even the harshest of environments. With a range of power ratings you can make sure your vehicles safety, communications, and critical equipment always has the power to function effectively no matter how great the distance.

## DC Power Supply installation

Power wires must be suitably sized and must be crimped using an appropriate crimping tool. All ground points must be connected to chassis earth or start battery negative. Refer to the specification tables for fuse recommendations.

### 24V system option



	DPS1225	DPS1240	DPS2410	DPS2420
Input voltage range	9 - 32V	9 - 32V	9 - 32V	9 - 32V
Output voltage - config 1	12.0V	12.0V	24.0V	24.0V
Output voltage - config 2	13.7V	13.7V	27.4V	27.4V
Output voltage - config 3	14.5V	14.5V	29.0V	29.0V
Output current rating	25A	40A	10A	20A
Peak surge rating	50A	80A	20A	40A
No load current	<100mA	<100mA	<200mA	<200mA
Standby current	<5mA	<5mA	<5mA	<5mA
Line/load regulation	±1%	±1%	±1%	±1%
Conversion efficiency	>94%	>94%	>94%	>94%
Recommended input fuse*	40A	60A	40A	60A
Recommended output fuse*	40A	60A	40A	40A
Operating temperature	-58° to +122°F	-58° to +122°F	-58° to +122°F	-58° to +122°F
Dimensions	5.91x4.72x1.46"	5.91x4.72x1.46"	5.91x4.72x1.46"	5.91x4.72x1.46"
Weight	1.5lb	1.5lb	1.5lb	1.5lb

## Fusing

REDARC recommend using MIDI style bolt down fuses as they ensure a low resistance connection.

REDARC's FK40 and FK60 fuse kits are recommended.



Visit [redarcelectronics.com](http://redarcelectronics.com) for more information

For product support contact your regional distributor - a complete list can be found at [redarcelectronics.com/distributors](http://redarcelectronics.com/distributors) - or send an email to [power@redarcelectronics.com](mailto:power@redarcelectronics.com)

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\* Fuses not supplied. Details and specifications are subject to change without notice.  
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