



Ablemail Products Selector

CAPABILITY

The Ablemail Universal Power Converter Range is a broad range of 9-32V Input and 3-32V Output DC-DC converters. The part number determines capability of the individual product and is selected from the broad range of options as follows.

AM

The designator “AM” is historical in origin. The “A” refers to Ablemail which created the range of DC-DC converters.

AMN : AMR : AMC : AMS

At the heart of each Ablepower Universal Power Converter is a precision analog/digital DC-DC boost buck regulator capable of transforming an input voltage of between 8V to 32V to a highly stable factory set DC output between 1.5V and 32V. The “N” designates the nominal model with basic capabilities which is the technical building block upon which the commercial models are built.

AMN : AMR : AMC : AMS

The “R” designates the unit as a precision regulator with a stability of +/- 50mV making it suitable for supplying power to sensitive electronic systems. This model supports factory fitted extensions including:

- Temperature cutoff
- Remote control on/off typically (ignition circuit)
- Calibration mode
- Cooling fan control
- “Black Box” history of maximum voltages and temperatures to assist with system failure diagnostics
- Ablemail Software Interface (ASI) support for configuring and monitoring.

Please call Ablemail Technical Sales for details of these enhancements.

AMN : AMR : AMC : AMS

The “C” designates the unit as a battery charger. The unit may be configured for almost any type of battery including lead-acid batteries and Lithium Ion. Additional battery management parts or software configurations may sometimes be required so we advise contacting Ablemail Technical Sales to ensure you order all the components required.



Ablemail Electronics

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AMN : AMR : AMC : AMS

The “S” designates the unit as a solar battery charger. The type of battery should be specified at the time of purchase.

AMR12 : AMR24 : AMRXX

The following two characters designate the nominal input voltage: 12V, 24V or custom voltage. The standard specification sheets cover input voltages of +/- 10% nominal. However, the Ablepower Universal Power Converter is capable of transforming an input voltage of between 8 and 32V to a highly stable factory set DC output voltage. If you envisage your application will exceed +/- 10% nominal input voltage you should contact Ablemail Technical Sales who will be able to provide a custom specification sheet so that you can ensure current and power dissipation limits are not exceeded in your application. If necessary, it is possible to use several Ablepower Universal Power Converter units in parallel to meet load requirements.

MECHANICAL OPTIONS

These cover aspects of the build such as connector types, encapsulation, end cap type and heatsink colour. These are covered in the Ablemail Mechanical Options (SD1004).

SOFTWARE OPTIONS

The hardware is designed and built to a very high specification. The optional microcontroller allows the converter to deliver complex power management programmes suited to a wide range of applications.

A standard set of optimized software programmes suit most applications and the **Ablemail Software Interface** (ASI) allows the standard programmes to be optimized by the customer to meet their specific needs. If further optimization is required then talk to Ablemail Technical Sales.

The Ablemail Software Interface (ASI) allows access to the Blackbox data recorder and the Real time monitor. These allow analysis of converter behaviour and operating conditions in the past and in the present. This analysis can be used for investigating power supply issues on the vehicle power system as well as converter issues.

Please contact Ablemail Technical Sales for more information.