

Ideal Battery Management Unit

The Greeve Ideal Battery Management Unit is designed to enable the optimum use of batteries in a back-up power system.

- Prolongs battery life
- Optimises available power
- Reduces cost of ownership

It enables a number of batteries to be charged independently and the load to be balanced across each individual battery. This enables both the battery charging and the loading to be optimum for each 12v cell. The output can be fed directly to a 12v load or passed through a DC-DC converter to generate any desired DC output or an Inverter to generate AC power. The use of the Ideal Battery Management Unit negates the need for parallel and series battery installations with the inherent damage to weaker batteries under charge and load.

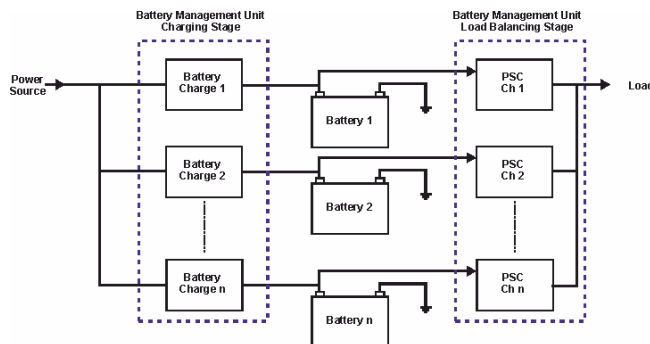
The unit uses solid state MOSFET technologies so there are no relay contacts to wear or generate interference and no diodes with inherent voltage drops.

The unit can be supplied as a standalone component to be integrated in a back-up power system or as a complete power solution with an integrated input mains supply, output DC-DC converters, back up batteries and inverters.

It can be implemented in the same way as an Uninterruptable Power Supply but with individual battery cell charging and loading.

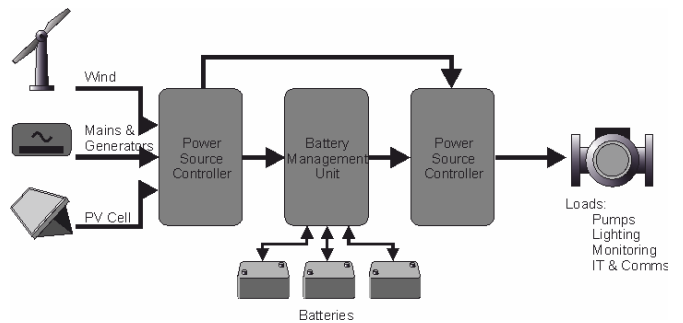
The unit can be provided as a standalone component, as a DIN rail mount unit, or as part of a complete back-up supply in a rack-mount system.

Standard units take up to three 12v batteries. Options for higher numbers of battery channels are available to enable very robust and resilient power supply systems to be built.



DIN Rail Version of the Battery Management Unit

Application Example:



A Battery Management Unit combined with Power Source Controllers enables automatic transfer of load between various power sources and optimum battery charging. The system automatically transfers load to the batteries when power fails and balances the load across the batteries depending on their condition.

Expansion:

The battery Management Unit can be integrated with other Greeve products to build a complete power management and monitoring system including automatic power source selection, power source failure monitoring, and battery health monitoring.

Bespoke Development:

Greeve can provide systems to meet exact requirements; please enquire for details.

Enquire about optimum voltage and power ratings for your application.