

Smart-grid EMMA DSM unit optimizes performance of 90 year old micro-generator

Coolpower's second generation EMMA controller installed Andover UK; 30th October 2009



Source of power



1920 restored Francis turbine



EMMA SP15 v2 matching household load to turbine output (difference < 1%)

Cool Power Products Ltd is a registered limited company in Dublin, Ireland developing products and services that improve the sustainability of energy and water consuming products and systems

Company Registration Number: 450079 Registered office: 89 Booterstown Avenue, Blackrock, Co. Dublin

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smart sustainable energy

Second generation EMMA units

Coolpower Products launched its second generation range of EMMA units in October 2009. These are high performance, modularized units. They come in the following forms;

Single Phase EMMA controllers

These come in two sizes; single phase 15 amp (SP15) unit and a single phase 35 amp (SP35) unit.

The SP15 is ideal for a small micro-generator (up to 3.5kW) and a standard immersion heater (3kW). It can also be used with two small storage heaters (1.5kW each).

The SP35 is perfect for use with a c.6kW micro-generator and a c.6kW calorifier in a 500-1,000 litre thermal reservoir.

Three phase EMMA controllers

These come in two sizes; 45 amp (TP45) and 105 amp (TP105)

These are suited for micro-generators with three-phase outputs of between 6 and 25 kW.

Integrated EMMA units

These units come complete with a fully functioning domestic distribution board and can be used in place of standard distribution boards. These are designed primarily for installation during construction but can also be used to replace old distribution boards.

Additional Features

All of the second generation EMMA units come with their own display screens that show exactly what is happening in real time. They also have the potential for use as sophisticated timeclock and temperature control devices. They can be used, for example, to ensure that particular temperature requirements are met during particular time periods in the most efficient way possible. This ensures that these temperature requirements will be met using power drawn from the grid during periods of low micro-generator output....only as and when necessary.

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