Communications on Power Systems

Abstract

A power and data supply system includes circuitry for supplying power and data to an output via a common transmission line, comprising: a DC power source; a data signal source; a modulator for generating a modulated signal in dependence on the data signal; and a switching means for switching the DC power, the switching means controlled by the modulated signal, such that the switching means in use generates an AC signal for output to the transmission line; a transmission line for receiving the AC signal from the switching means, and means for extracting the data from the AC signal received from the transmission line.

Fig. 1