

ABSTRACT

Disclosed is a power distribution system including: an energy storage module configured to receive and store energy from a polyphase power supply; an
5 energy management module configured to balance the load on each phase of the polyphase power supply when charging the energy storage module by adjusting the load used to charge the energy storage module on each phase so as to minimise a resultant neutral current for the polyphase power supply; and an output interface configured to output power from the energy storage module

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[Fig. 1]