

ABSTRACT

TOPOLOGY AND CONTROL STRATEGY FOR HYBRID STORAGE SYSTEMS

5 The application discloses a hybrid battery charging device
that comprises input terminals for connecting a photovoltaic
panel or other current sources, first battery connections for
connecting a lead-acid battery and second battery for con-
necting a high-cycle chemical battery. Furthermore, the bat-
10 tery charging device comprises a two-way DC/DC converter with
a first set of terminals that is connected with the second
battery connections, and with a second set of terminals that
is connected with the first battery connections. An input of
the second set of terminals is derived from the input termi-
15 nals. Furthermore, the battery charging device comprises a
charge and discharge control system which is connected to the
DC/DC converter via respective control lines and output ter-
minals for connecting a load, wherein an input to the output
terminals is derived from the first battery connections.

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[Fig. 2]