

ABSTRACT

BATTERY PACK

A battery pack for a transport vehicle is disclosed. The battery pack comprises a housing which includes output terminals for coupling with the electrical system of the vehicle. An energy storage pack is arranged to provide starting energy to the vehicle. A battery unit is provided for providing power supply and starting energy to the vehicle. It also includes an energy storage unit for providing power supply to the energy storage pack when necessary. A charger unit is provided for charging the energy storage pack or the energy storage unit. A plurality of switches is operable with the energy storage pack, battery unit, energy storage unit and charger unit and configured so that the battery unit operates between a normal mode, charging mode and a jump start mode. The battery pack also includes a processor unit arranged for connection with the charger unit and the energy storage pack; and a means to activate a jump start mode wherein the switches are operable with the charger unit, the energy storage unit and the energy storage pack to provide starting energy to the battery unit.

[Figure 10]