6. The battery pack according to any of the above claims, wherein the plurality of switches are controlled by the processor unit such that the energy storage unit is charged to a predetermined voltage level by the charger unit and the energy storage unit when in the charging mode.

7. The battery pack according to any of the above claims, wherein the plurality of switches are controlled by the processor unit such that the energy storage pack is charged by the energy storage unit when in the jump start mode.

8. The battery pack according to any of the above claims, wherein the plurality of switches are controlled by the processor unit such that the battery unit and the energy storage pack provides starting energy to the vehicle when in the normal mode.

9. The battery pack according to any of the above claims, wherein the battery pack further includes a light display indicator for providing a user the status of the battery pack, wherein the light display indicator includes a plurality of light-emitting diode lamps.

10. The battery pack according to claim 9, wherein the plurality of light-emitting diode lamps include coloured lamps for indicating to the user when the battery pack is in the normal mode, the charging mode or the jump start mode.

11. The battery pack according to any of the above claims, wherein the interior of the housing includes a layer of heat rejection material for thermal insulation.

12. The battery pack according to any of the above claims, wherein the energy storage pack includes a supercapacitor.

13. The battery pack according to any of the above claims, wherein the energy storage unit comprises a battery of a lithium-ion type.

~~14. A portable battery pack for use with a battery of a transport vehicle, the portable battery pack comprising a housing including:~~

a cable outlet for connecting a positive and a negative connector for coupling with positive and negative terminals of the battery of the transport vehicle;

an energy storage pack arranged to provide starting energy to the vehicle when an electrical connection is made between the energy storage pack and the battery;

a charger unit for receiving a supply voltage from an external power source to provide a charging voltage to charge the energy storage pack;

a circuit having a switch configured to operate between a charging mode and a jump start mode,

a processor unit arranged for connection with the charger unit and the energy storage pack;

a push button coupled to the processor unit;

wherein depressing the push button causes the switch to activate the charging mode in which the switch is open to allow the charger unit to provide charging voltage to charge the energy storage pack and a jump start mode in which the switch is closed to allow the energy storage pack to provide starting energy to the battery.

15. A method of supplying electrical energy to a battery of a transport vehicle, the method comprising:

providing a portable battery pack for coupling with the battery of the transport vehicle, the portable battery pack including:

a cable outlet for connecting a positive and a negative connector for coupling with positive and negative terminals of the battery of the transport vehicle;

an energy storage pack arranged to provide starting energy to the vehicle when an electrical connection is made between the energy storage pack and the battery;

a charger unit for receiving a supply voltage from an external power source to provide a charging voltage to charge the energy storage pack;

a circuit having a switch configured to operate between a charging mode and a jump start mode,

a processor unit arranged for connection with the charger unit and the energy storage pack;

a push button coupled to the processor unit;

wherein depressing the push button causes the switch to activate the charging mode in which the switch is open to allow the charger unit to provide charging voltage to charge the energy storage pack and a jump start mode in which the switch is closed to allow the energy storage pack to provide starting energy to the battery.