CLAIMS

1. A vehicular storage battery device, comprising:

a housing;

battery boxes disposed in the housing, the battery box housing an electric cell as a vehicle power source and including a heat transporting part transporting heat generated in the battery box to outside of the battery box;

a common cooling passage disposed in the housing, the common cooling passage provided with an inlet for taking in a fluid and an outlet for discharging the fluid having passed through the passage, the inlet and the outlet being open in a direction different from a traveling direction of the vehicle, the heat transporting part of the battery box being exposed to inside of the passage; and

an exterior case that includes supporting sections, the supporting section supporting a plurality of housings that are arranged, wherein the exterior case includes:

an upper part fixing portion for fixing to a roof top part of the vehicle;

a lower part fixing portion for fixing to an underfloor part of the vehicle;

a planned upper-side opening portion to discharge the fluid from a vehicle upper side when the exterior case is fixed by the upper part fixing portion; and

a planned lower-side opening portion to discharge the fluid from a vehicle lower side when the exterior case is fixed by the lower part fixing portion.

2. The vehicular storage battery device according to claim 1, wherein the outlet discharges the fluid from one of a vehicle upper side and a vehicle lower side.

3. The vehicular storage battery device according to claims 1 or 2, wherein a device housing that houses an electronic part different from the electric cell is disposed in one of the supporting sections of the exterior case.

4. The vehicular storage battery device according to any one of claims 1 to 3, wherein at one of the planned upper-side opening portion and the planned lower-side opening portion, a blocking member prevents discharge of the fluid.

5. The vehicular storage battery device according to any one of claims 1 to 4, wherein the exterior case includes supporting sections provided linearly to support the housings along a traveling direction of the vehicle.

6. The vehicular storage battery device according to any one of claims 1 to 5, wherein the heat transporting part includes a heat pipe thermally connected to a wall face of the battery box, and a heat radiation part thermally connected to one end of the heat pipe and exposed in the common cooling passage.

7. The vehicular storage battery device according to any one of claims 1 to 6, further comprising:

a filter device disposed at a position deviating from a sucking side front face of the inlet; and

an inlet passage connecting the filter device and the inlet.