TITLE: LIGHTING DEVICE HAVING UNINTERRUPTIBLE ILLUMINATION AND EXTERNAL POWER SUPPLY FUNCTION

BACKGROUND OF THE INVENTION

(a) Field of the Invention

The present invention provides a lighting device having uninterruptible illumination and external power supply function, in which the lighting device is combined with an energy storing/discharging device thereby providing an uninterruptible illumination function and supplying uninterruptable AC or DC power to the exterior during power blackout, a controller assembly is integrated with an operation device, an external power supply interface device, an electric-driven lighting device, ~~a public power and/or solar power and/or wind power generation source,~~ and an energy storing/discharging device, thereby capable of providing the uninterruptible illumination function and supplying uninterruptable AC or DC power to the exterior during power blackout, thus ~~the battery of an electric-driven carrier or the actuation battery of an engine carrier or~~ the rechargeable battery of a portable electric device such as a mobile phone, camera, laptop or a rechargeable electric tool can be provided with electric power as the electric source for charging.

(b) Description of the Prior Art

A conventional electric charging device having an energy storing/discharging device for outputting electric power to the exterior is often installed on a ~~roadside or~~ public space or indoor space, a lighting device is often installed on a ~~roadside or~~ public space or indoor space as well, a conflict is often generated for the installation space for the above two; ~~moreover, the street lamp or signal lamp, e.g. traffic signal lamp, of the public illumination at important location is usually required~~ and a power uninterruptible function is usually required during power blackout, so an energy storing/discharging device and a charging control circuit

shall be installed, what shall be addressed is that main components adopted in the above two are very much the same thereby cost being increased.

SUMMARY OF THE INVENTION

A conventional electric charging device having an energy storing/discharging device for outputting electric power to the exterior is often installed on a ~~roadside or~~ public space or indoor space, a lighting device is often installed on a ~~roadside or~~ public space or indoor space as well, a conflict is often generated for the installation space for the above two; ~~moreover, the street lamp or signal lamp, e.g. traffic signal lamp, of the public illumination at important location is usually required~~ and a power uninterruptible function is usually required during power blackout, so an energy storing/discharging device and a charging control circuit shall be installed, what shall be addressed is that main components adopted in the above two are very much the same thereby cost being increased;

The present invention provides a lighting device having uninterruptible illumination and external power supply function, in which the lighting device is combined with an energy storing/discharging device thereby providing an uninterruptible illumination function and supplying uninterruptable AC or DC power to the exterior during power blackout, a controller assembly is integrated with an operation device, an external power supply interface device, an electric-driven lighting device, ~~a public power and/or solar power and/or wind power generation source,~~ and an energy storing/discharging device, thereby capable of providing the uninterruptible illumination function and supplying uninterruptable AC or DC power to the exterior during power blackout, thus ~~the battery of an electric-driven carrier or the actuation battery of an engine carrier or~~ the rechargeable battery of a portable electric device such as a mobile phone,

camera, laptop or a rechargeable electric tool can be provided with electric power as the electric source for charging.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a schematic view showing the main circuit of the lighting device having uninterruptible illumination and external power supply function provided by the present invention.

~~FIG. 2 is a front view illustrating the lighting device having uninterruptible illumination and external power supply function being applied on a street lamp device (201), according to one embodiment of the present invention.~~

~~FIG. 3 is a side view illustrating the lighting device having uninterruptible illumination and external power supply function being applied on the street lamp device (201), according to one embodiment of the present invention.~~

~~FIG. 4 is a front view illustrating the lighting device having uninterruptible illumination and external power supply function being applied on a floor-type public lighting device (401) at outdoor location, according to one embodiment of the present invention.~~

~~FIG. 5 is a side view illustrating the lighting device having uninterruptible illumination and external power supply function being applied on the floor-type public lighting device (401) at outdoor location, according to one embodiment of the present invention.~~

~~FIG. 6 is a schematic view illustrating the lighting device having uninterruptible illumination and external power supply function being applied in an indoor moveable lighting device (601), according to one embodiment of the present invention.~~

~~FIG. 7 is a schematic view illustrating the lighting device having uninterruptible illumination and external power supply function being applied in a blackout illumination device (701), according to one~~

~~embodiment of the present invention.~~

~~FIG. 8 is a schematic view illustrating the lighting device having uninterruptible illumination and external power supply function being applied in an uninterruptable wall-hanged lighting (801) having a plug (PL101) and installed on a wall surface, according to one embodiment of the present invention.~~

FIG. 2~~9~~ is a schematic view illustrating the interface with external power supply function being installed with a cover locked type radially-arranged power supply case (901) according to one embodiment of the present invention.

FIG. 3~~10~~ is a schematic view illustrating the interface with external power supply function being installed with a cover locked type transversally-arranged power supply case (1001) according to another embodiment of the present invention.

DESCRIPTION OF MAIN COMPONENT SYMBOLS

PS100: power source

OP100: operation device

ECU100: electric control unit

ESD100: energy storing/discharging device

C100: external energy supply interface device

OPC100: power output control circuit device

L100: electric-driven lightening device

101: charging grid protection cover

102: ventilation heat dissipating hole

103: cover lock

~~201: street lamp device~~

~~401: public lighting device~~

~~601: moveable lighting device~~

~~701: black illumination device~~

~~801: uninterruptable wall-hanged lighting~~

901: radially-arranged power supply case

1001: transversally-arranged power supply case

1000: controller assembly

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

A conventional electric charging device having an energy storing/discharging device for outputting electric power to the exterior is often installed on a ~~roadside or~~ public space or indoor space, a lighting device is often installed on a ~~roadside or~~ public space or indoor space as well, a conflict is often generated for the installation space for the above two; ~~moreover, the street lamp or signal lamp, e.g. traffic signal lamp, of the public illumination at important location is usually required~~ and a power uninterruptible function is usually required during power blackout, so an energy storing/discharging device and a charging control circuit shall be installed, what shall be addressed is that main components adopted in the above two are very much the same thereby cost being increased;

The present invention provides a lighting device having uninterruptible illumination and external power supply function, in which the lighting device is combined with an energy storing/discharging device thereby providing an uninterruptible illumination function and supplying uninterruptable AC or DC power to the exterior during power blackout, a controller assembly is integrated with an operation device, an external power supply interface device, an electric-driven lighting device, ~~a public power and/or solar power and/or wind power generation source,~~ and an energy storing/discharging device, thereby capable of providing the uninterruptible illumination function and supplying uninterruptable AC or DC power to the exterior during power blackout, thus ~~the battery of an electric-driven carrier or the actuation battery of an engine carrier or~~ the

rechargeable battery of a portable electric device such as a mobile phone, camera, laptop or a rechargeable electric tool can be provided with electric power as the electric source for charging.

According to the present invention, the lighting device having uninterruptible illumination and external power supply function is disclosed as following:

FIG. 1 is a schematic view showing the main circuit of the lighting device having uninterruptible illumination and external power supply function provided by the present invention;

As shown in FIG. 1, the electric power supplied by a power source (PS100) of public power ~~and/or solar power and/or wind power generation~~ is outputted to a controller assembly (1000), then the controller assembly (1000) is controlled by an operation device (OP100) and/or an electric control unit (ECU100) and/or a power output control circuit device (OPC100) for outputting the AC or DC power through an external power supply interface device (C100) to the exterior, and/or outputting to an electric-driven lighting device (L100), wherein the controller assembly (1000) is served to be inputted with AC, or DC, or AC converting to DC, or DC converting to AC power source (PS100) for outputting power to the electric control unit (ECU100), so as to charge the energy storing/discharging device (ESD100) and/or to supply power to the electric-driven lighting device (L100) and/or to output AC or DC power to the exterior through the power output control circuit device (OPC100) and the external power supply interface device (C100), which mainly consists of:

--operation device (OP100): constituted by manually-operated electromechanical switches or buttons or press keys or touch-controlled or voice-controlled interface, and/or an operation switch and/or a user identification device and/or command identification device, the function provided including for actuating the system to operate and/or being

installed with an environmental illumination control device for indentifying day/night environmental illumination, and/or being provided with a power source detecting device of public power ~~and/or solar power and/or wind power generation~~ for detecting whether the supply of public power ~~and/or solar power and/or wind power generation~~ being normal or malfunction, so a power supply function of the energy storing/discharging device (ESD100) is actuated, or received with the signal or command of identifying detection power for controlling the electric control unit (ECU100);

--energy storing/discharging device (ESD100): constituted by a rechargeable energy storing device including a secondary battery capable of charging and discharging or super capacitor or capacitor, controlled by the electric control unit (ECU100) for controlling the electric power from the power source (PS100) used for charging the energy storing/discharging device (ESD100) through the electric control unit (ECU100), and controlled by the electric control unit (ECU100) for controlling the electric power from the energy storing/discharging device (ESD100) for supplying power to the electric-driven lighting device (L100) and/or supplying power to the exterior through the power output control circuit device (OPC100) and the external power supply interface device (C100);

--electric control unit (ECU100): constituted by electromechanical components or solid electric circuit components or chips and relative software, served for receiving the input power from the power source (PS100) and controlled by the operation device (OP100), including one or more than one operational functions: (1) controlling the ON/OFF timing of the power supplied by the power source (PS100) for driving the electric-driven lighting device (L100); or (2) controlling the timing of charging the energy storing/discharging device (ESD100) or terminating the charging when being saturated; or (3) through the energy

storing/discharging device (ESD100) outputting electric power, receiving the detection signal of the operation device (OP100) and controlled by the electric control unit (ECU100) for controlling supplying or terminating power to the power-driven lighting device (L100); or (4) controlled by the power output control circuit device (OPC100) to supply AC power of public power ~~and/or solar power and/or wind power generation or AC power with the voltage being regulated~~ to the exterior through the external energy supply interface device (C100); or (5) through the setting of the electric control unit (ECU100) or controlled by the power output control circuit device (OPC100), converting the DC power of the energy storing/discharging (ESD100) into AC output power; or (6) directly outputting the DC power of the energy storing/discharging device (ESD100) or outputting after through the control of the power output control circuit device (OPC100);

--electric-driven lighting device (L100): constituted by an electric-driven lamp, including generating lights for illumination or for indication signal lighting, when the power source (PS100) is terminated, the electric power of the energy storing/discharging device (ESD100) replaces the electric power of the power source (PS100), the electric-driven lighting device (L100) is continued to operation according to the set operating state of the operation device (OP100) and the electric control unit (ECU100), and subsequently controlled by the operation device (OP100) and operated by the set function through the electric control unit (ECU100); when the power source (PS100) is recovered for supplying electric power, the electric power of the power source (PS100) replaces the electric power of the energy storing/discharging device (ESD100), the electric-driven lighting device (L100) is operated according to the set operating state of the operation device (OP100) and the electric control unit (ECU100), and subsequently controlled by the operation device (OP100) and operated by the set function through the

electric control unit (ECU100);

--external power supply interface device (C100): constituted by a plug or socket structure and a voltage and current controlling and protective device, inputted with the DC or AC power from the electric control unit (ECU100) through the power output control circuit device (OPC100) for outputting to the exterior;

--power output control circuit device (OPC100): constituted by electromechanical components or electric circuit components, and/or a fuse or break protection device and/or electric power measuring device and/or installed with a monitoring device for outputted voltage and current, and/or installed with a wired or wireless detecting and monitoring device for the operation state at load end;

The individual units by which the controller assembly (1000) is composed can be individually installed or partially or all co-structured.

~~FIG. 2 is a front view illustrating the lighting device having uninterruptible illumination and external power supply function being applied on a street lamp device (201), according to one embodiment of the present invention;~~

~~FIG. 3 is a side view illustrating the lighting device having uninterruptible illumination and external power supply function being applied on the street lamp device (201), according to one embodiment of the present invention;~~

~~As shown in FIG. 2 and FIG. 3, the main configuration is that the power of the power source (PS100) outputs to the controller assembly (1000), then outputs AC and/or DC power to the external, and/or outputs to the electric-driven lighting device (L100) which composes the street lamp device (201);~~

~~wherein: the street lamp device (201) which is uninterruptable during electric blackout and composed by the electric-driven lighting device (L100) includes illumination lamp or signal lamp such as traffic lamp,~~

pedestrian signal lamp, railroad-crossing signal lamp, and meanwhile provides AC and/or DC power which is uninterruptable during power blackout to the external.

FIG. 4 is a front view illustrating the lighting device having uninterruptible illumination and external power supply function being applied on a floor-type public lighting device (401) at outdoor location, according to one embodiment of the present invention;

FIG. 5 is a side view illustrating the lighting device having uninterruptible illumination and external power supply function being applied on the floor-type public lighting device (401) at outdoor location, according to one embodiment of the present invention;

As shown in FIG. 4 and FIG. 5, the main configuration is that the power of the power source (PS100) outputs to the controller assembly (1000), then outputs AC and/or DC power to the external, and/or outputs to the electric-driven lighting device (L100);

wherein: the public lighting device (401) which is uninterruptable during electric blackout and composed by the electric-driven lighting device (L100) includes illumination lighting or high-altitude warning lamp, and meanwhile provides AC and/or DC power which is uninterruptable during power blackout to the external.

FIG. 6 is a schematic view illustrating the lighting device having uninterruptible illumination and external power supply function being applied in an indoor moveable lighting device (601), according to one embodiment of the present invention;

As shown in FIG. 6, the main configuration is that the power of the power source (PS100) outputs to the controller assembly (1000), then outputs AC and/or DC power to the external, and/or outputs to the electric-driven lighting device (L100);

wherein: the moveable lighting device (601) which is uninterruptable during electric blackout and composed by the electric-driven lighting

device (L100) includes a moveable illumination function applied in indoor or outdoor, and meanwhile provides AC and/or DC power which is uninterruptable during power blackout to the external.

FIG. 7 is a schematic view illustrating the lighting device having uninterruptible illumination and external power supply function being applied in a blackout illumination device (701), according to one embodiment of the present invention;

As shown in FIG. 7, the main configuration is that the power of the power source (PS100) outputs to the controller assembly (1000), then outputs AC and/or DC power to the external, and/or outputs to the electric-driven lighting device (L100);

wherein: the blackout illumination device (701) which is uninterruptable during electric blackout and composed by the electric-driven lighting device (L100) includes being applied in placed type or wall-hanged type illumination, and meanwhile provides AC and/or DC power which is uninterruptable during power blackout to the external.

FIG. 8 is a schematic view illustrating the lighting device having uninterruptible illumination and external power supply function being applied in an uninterruptable wall-hanged lighting (801) having a plug (PL101) and installed on a wall surface, according to one embodiment of the present invention;

As shown in FIG. 8, the main configuration is that the power of the power source (PS100) outputs to the controller assembly (1000), then outputs AC and/or DC power to the external, and/or outputs to the electric-driven lighting device (L100);

wherein: the uninterruptable wall-hanged lighting (801) which is uninterruptable during electric blackout and composed by the electric-driven lighting device (L100) includes being applied in illumination installed on wall, and meanwhile provides AC and/or DC power which is uninterruptable during power blackout to the external.

FIG. 2~~9~~ is a schematic view illustrating the interface with external power supply function being installed with a cover locked type radially-arranged power supply case (901) according to one embodiment of the present invention;

As shown in FIG. 2~~9~~, the main configuration is that the power of the power source (PS100) outputs to the controller assembly (1000), then outputs AC and/or DC power to the external, and/or outputs to the electric-driven lighting device (L100);

wherein: the interface with external power supply function being installed with a cover locked type radially-arranged power supply case (901) can be further installed with a charging grid surface and optionally installed with a part or all of the following peripheral devices for management including a charging indication lamp, charging grid, charging grid protection cover (101), cover lock (103), wherein the charging grid protection cover (101) includes being sealed or formed with ventilation heat dissipating hole (102).

FIG. 3~~10~~ is a schematic view illustrating the interface with external power supply function being installed with a cover locked type transversally-arranged power supply case (1001) according to another embodiment of the present invention;

As shown in FIG. 3~~10~~, the main configuration is that the power of the power source (PS100) outputs to the controller assembly (1000), then outputs AC and/or DC power to the external, and/or outputs to the electric-driven lighting device (L100);

wherein: the interface with external power supply function being installed with a cover locked type transversally-arranged power supply case (1001) can be further installed with a charging grid surface and optionally installed with a part or all of the following peripheral devices for management including a charging indication lamp, charging grid, the charging grid protection cover (101), the cover lock (103), wherein the

charging grid protection cover (101) includes being sealed or formed with the ventilation heat dissipating hole (102).

CLAIMS

1. A lighting device having uninterruptible illumination and external power supply function, in which the lighting device is combined with an energy storing/discharging device thereby providing an uninterruptible illumination function and supplying uninterruptable AC or DC power to the exterior during power blackout, a controller assembly is integrated with an operation device, an external power supply interface device, an electric-driven lighting device, ~~a public power and/or solar power and/or wind power generation source,~~ and an energy storing/discharging device, thereby capable of providing the uninterruptible illumination function and supplying uninterruptable AC or DC power to the exterior during power blackout; the electric power supplied by a power source (PS100) of public power ~~and/or solar power and/or wind power generation~~ is outputted to a controller assembly (1000), then the controller assembly (1000) is controlled by an operation device (OP100) and/or an electric control unit (ECU100) and/or a power output control circuit device (OPC100) for outputting the AC or DC power through an external power supply interface device (C100) to the exterior, and/or outputting to an electric-driven lighting device (L100), wherein the controller assembly (1000) is served to be inputted with AC, or DC, or AC converting to DC, or DC converting to AC power source (PS100) for outputting power to the electric control unit (ECU100), so as to charge the energy storing/discharging device (ESD100) and/or to supply power to the electric-driven lighting device (L100) and/or to output AC or DC power to the exterior through the power output control circuit device (OPC100) and the external power supply interface device (C100), which mainly consists of:

--operation device (OP100): constituted by manually-operated electromechanical switches or buttons or press keys or touch-controlled or voice-controlled interface, and/or an operation

switch and/or a user identification device and/or command identification device, the function provided including for actuating the system to operate and/or being installed with an environmental illumination control device for indentifying day/night environmental illumination, and/or being provided with a power source detecting device of public power ~~and/or solar power and/or wind power generation~~ for detecting whether the supply of public power ~~and/or solar power and/or wind power generation~~ being normal or malfunction, so a power supply function of the energy storing/discharging device (ESD100) is actuated, or received with the signal or command of identifying detection power for controlling the electric control unit (ECU100);

--energy storing/discharging device (ESD100): constituted by a rechargeable energy storing device including a secondary battery capable of charging and discharging or super capacitor or capacitor, controlled by the electric control unit (ECU100) for controlling the electric power from the power source (PS100) used for charging the energy storing/discharging device (ESD100) through the electric control unit (ECU100), and controlled by the electric control unit (ECU100) for controlling the electric power from the energy storing/discharging device (ESD100) for supplying power to the electric-driven lighting device (L100) and/or supplying power to the exterior through the power output control circuit device (OPC100) and the external power supply interface device (C100);

--electric control unit (ECU100): constituted by electromechanical components or solid electric circuit components or chips and relative software, served for receiving the input power from the power source (PS100) and controlled by the operation device (OP100), including one or more than one operational functions: (1) controlling the ON/OFF timing of the power supplied by the power source (PS100) for driving

the electric-driven lighting device (L100); or (2) controlling the timing of charging the energy storing/discharging device (ESD100) or terminating the charging when being saturated; or (3) through the energy storing/discharging device (ESD100) outputting electric power, receiving the detection signal of the operation device (OP100) and controlled by the electric control unit (ECU100) for controlling supplying or terminating power to the power-driven lighting device (L100); or (4) controlled by the power output control circuit device (OPC100) to supply AC power of public power ~~and/or solar power and/or wind power generation or AC power with the voltage being regulated~~ to the exterior through the external energy supply interface device (C100); or (5) through the setting of the electric control unit (ECU100) or controlled by the power output control circuit device (OPC100), converting the DC power of the energy storing/discharging (ESD100) into AC output power; or (6) directly outputting the DC power of the energy storing/discharging device (ESD100) or outputting after through the control of the power output control circuit device (OPC100);

--electric-driven lighting device (L100): constituted by an electric-driven lamp, including generating lights for illumination or for indication signal lighting, when the power source (PS100) is terminated, the electric power of the energy storing/discharging device (ESD100) replaces the electric power of the power source (PS100), the electric-driven lighting device (L100) is continued to operation according to the set operating state of the operation device (OP100) and the electric control unit (ECU100), and subsequently controlled by the operation device (OP100) and operated by the set function through the electric control unit (ECU100); when the power source (PS100) is recovered for supplying electric power, the electric power of the power source (PS100) replaces the electric power of the energy

storing/discharging device (ESD100), the electric-driven lighting device (L100) is operated according to the set operating state of the operation device (OP100) and the electric control unit (ECU100), and subsequently controlled by the operation device (OP100) and operated by the set function through the electric control unit (ECU100);

--external power supply interface device (C100): constituted by a plug or socket structure and a voltage and current controlling and protective device, inputted with the DC or AC power from the electric control unit (ECU100) through the power output control circuit device (OPC100) for outputting to the exterior;

--power output control circuit device (OPC100): constituted by electromechanical components or electric circuit components, and/or a fuse or break protection device and/or electric power measuring device and/or installed with a monitoring device for outputted voltage and current, and/or installed with a wired or wireless detecting and monitoring device for the operation state at load end;

The individual units by which the controller assembly (1000) is composed can be individually installed or partially or all co-structured.

~~2. A lighting device having uninterruptible illumination and external power supply function as claimed in claim 1, wherein including to be applied to a configuration that the power of the power source (PS100) outputs to the controller assembly (1000), then outputs AC and/or DC power to the external, and/or outputs to the electric-driven lighting device (L100) which composes the street lamp device (201);~~

~~wherein: the street lamp device (201) which is uninterruptable during electric blackout and composed by the electric-driven lighting device (L100) includes illumination lamp or signal lamp such as traffic lamp, pedestrian signal lamp, railroad-crossing signal lamp, and meanwhile provides AC and/or DC power which is uninterruptable during power blackout to the external.~~

3. A lighting device having uninterruptible illumination and external power supply function as claimed in claim 1, wherein including to be applied to a configuration that the power of the power source (PS100) outputs to the controller assembly (1000), then outputs AC and/or DC power to the external, and/or outputs to the electric-driven lighting device (L100);

wherein: the public lighting device (401) which is uninterruptable during electric blackout and composed by the electric-driven lighting device (L100) includes illumination lighting or high-altitude warning lamp, and meanwhile provides AC and/or DC power which is uninterruptable during power blackout to the external.

4. A lighting device having uninterruptible illumination and external power supply function as claimed in claim 1, wherein including to be applied to a configuration that the power of the power source (PS100) outputs to the controller assembly (1000), then outputs AC and/or DC power to the external, and/or outputs to the electric-driven lighting device (L100);

wherein: the moveable lighting device (601) which is uninterruptable during electric blackout and composed by the electric-driven lighting device (L100) includes a moveable illumination function applied in indoor or outdoor, and meanwhile provides AC and/or DC power which is uninterruptable during power blackout to the external.

5. A lighting device having uninterruptible illumination and external power supply function as claimed in claim 1, wherein including to be applied to a configuration that the power of the power source (PS100) outputs to the controller assembly (1000), then outputs AC and/or DC power to the external, and/or outputs to the electric-driven lighting device (L100);

wherein: the blackout illumination device (701) which is

~~uninterruptable during electric blackout and composed by the electric-driven lighting device (L100) includes being applied in placed type or wall-hanged type illumination, and meanwhile provides AC and/or DC power which is uninterruptable during power blackout to the external.~~

~~6. A lighting device having uninterruptible illumination and external power supply function as claimed in claim 1, wherein including to be applied to a configuration that the power of the power source (PS100) outputs to the controller assembly (1000), then outputs AC and/or DC power to the external, and/or outputs to the electric-driven lighting device (L100);~~

~~wherein: the uninterruptable wall-hanged lighting (801) which is uninterruptable during electric blackout and composed by the electric-driven lighting device (L100) includes being applied in illumination installed on wall, and meanwhile provides AC and/or DC power which is uninterruptable during power blackout to the external.~~

2~~7~~. A lighting device having uninterruptible illumination and external power supply function as claimed in claim 1, wherein including to be applied to a configuration that the power of the power source (PS100) outputs to the controller assembly (1000), then outputs AC and/or DC power to the external, and/or outputs to the electric-driven lighting device (L100);

wherein: the interface with external power supply function being installed with a cover locked type radially-arranged power supply case (901) can be further installed with a charging grid surface and optionally installed with a part or all of the following peripheral devices for management including a charging indication lamp, charging grid, charging grid protection cover (101), cover lock (103), wherein the charging grid protection cover (101) includes being sealed or formed with ventilation heat dissipating hole (102).

38. A lighting device having uninterruptible illumination and external power supply function as claimed in claim 1, wherein including to be applied to a configuration that the power of the power source (PS100) outputs to the controller assembly (1000), then outputs AC and/or DC power to the external, and/or outputs to the electric-driven lighting device (L100);

wherein: the interface with external power supply function being installed with a cover locked type transversally-arranged power supply case (1001) can be further installed with a charging grid surface and optionally installed with a part or all of the following peripheral devices for management including a charging indication lamp, charging grid, the charging grid protection cover (101), the cover lock (103), wherein the charging grid protection cover (101) includes being sealed or formed with the ventilation heat dissipating hole (102).