ABA5 V1.0

LED Emergency Power Supply



Product Features:

-Automatically perform self-check function~3 months automatic check once
-Emergency kits are controlled by MCU constant power output
-Compatible with all LED constant current drivers for UFO fixtures
-Using high-quality rechargeable lithium batteries
-Protections: The product has a perfect protection function
-Indication light:Multiple work indication states
-Mock-up electricity pause emergency testing function
-In case of emergency ~ battery discharge can be turned off
-Battery zero power consumption under static state

Models

Model Number	Output Current	Input Voltage	Output Voltage	Emergency Power	Power Factor
ABA5-260-T180	20-50mA	100-277V	30-260V	5W	0.5

Quantity per Package

Model	Carton size	Qty/carton	G.W
ABA5	330*270*300mm	6PCS	8KG

Input Specifications

Parameter	Min.	Typ.	Max.	Notes
Input AC Voltage	100Vac	-	277Vac	
Input Frequency	47 Hz	-	63 Hz	
Input AC Current	-	0.5mA	-	@230Vac
Input Charging Wattage	-	-	5W	
PF	-	0.5	-	@230Vac

Output Specifications

Parameter	Min.	Typ.	Max.	Notes
Emergency Watts	-	5W	-	@Subject to Actual Testing
Emergency Output Voltage	30Vdc	-	260Vdc	
Emergency Transfer	0.5s	-	1s	
Emergency Runtime	-	185Minutes	-	@Tested at 26 °C

General Specifications

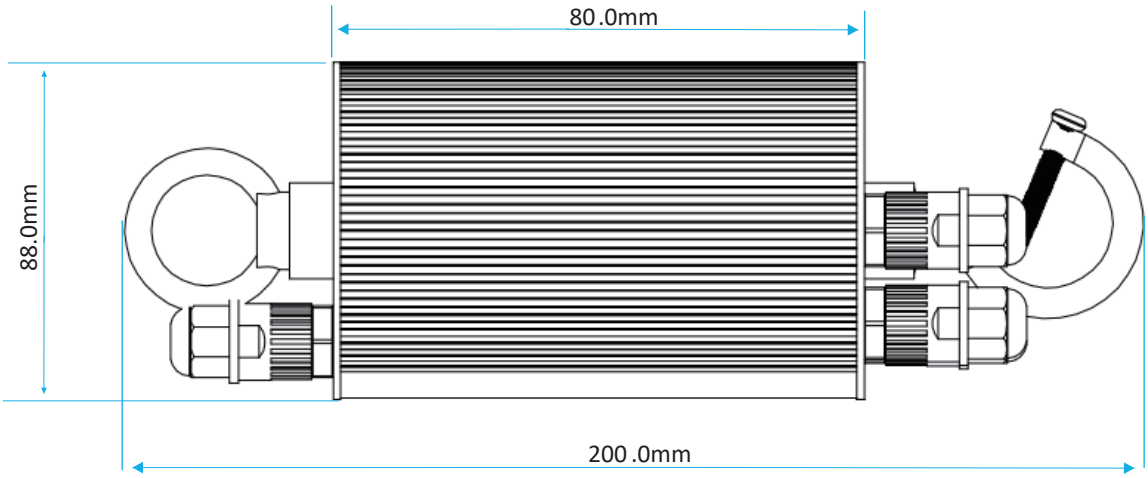
Parameter	Min.	Typ.	Max.	Notes
Battery Charging Current	-	-	350mA	
Battery Charging Time	-	>24h	-	@Normal Temperture
High Temperature Protection	-	60°C	-	@Charging State
Ambient Operating Temperature ta	0°C	-	50°C	@Best Tested at 20°C-35°C
Dimensions	-	Φ88*80mm	-	
Maximum Shell Temperature tc	-	75°C	-	
Warranty	-	3 Years	-	@Not Including Battery

Protection Functions

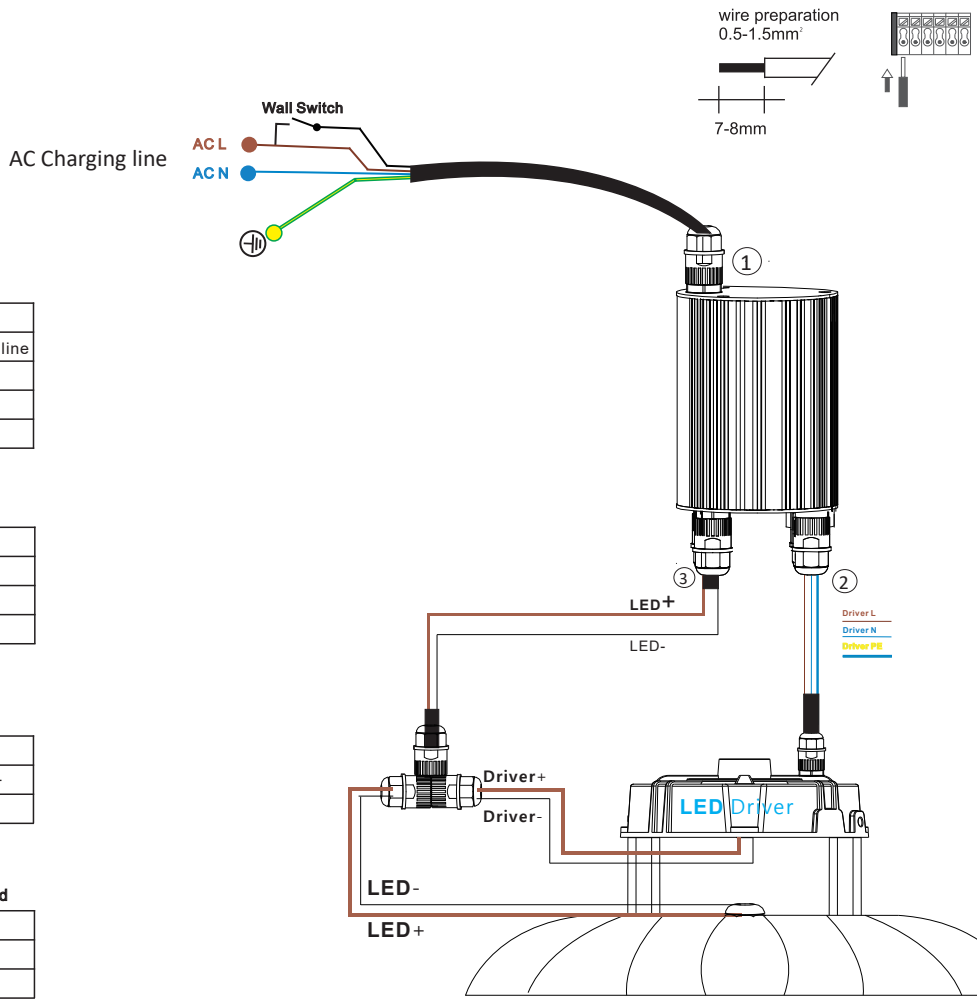
Battery Charging Protection	Automatic reversible
Converter Protection Function	Automatic reversible
Type of protection	IP65
Short Circuit Protection	Automatic reversible
Emergency Function Test	Automatic reversible
Battery Specifications	Li-ion battery 2600mAh 7.4V
Emergency Function Test	Worker test,Auto-test

Note:
1.All parameters NOT specially mentioned are measured at 230VAC input, full load and 25°C of ambient temperature.
2.EL compatible with lEC 61347-2-13 Annex J, compatible with EN 60598-2-22 emergency lighting fixtures, compatible with EN 50172central battery system applications.
3.All PAIRUI power supply are complied with EMl reaulations, Since they are belong to component and will be instaled inside systemenclosure. When they are integrated into a system, the EMl characteristics of the system must be re-verified again.

Exterior Dimensions (unit: mm)



Connection Diagram



1 AC Input

Hole site	Connection
L	Un-Switched line
2	Switched line
N	Neutral
1	Earth

2 Output to LED driver AC

Hole site	Connection
	Driver-L
	Driver-N
	Driver-PE

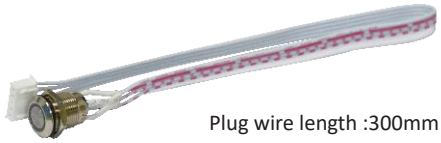
3 Output to LED driver DC

Hole site	Connection
	Driver-DC+
	Driver-DC-

4 Output to LED lamps board

Hole site	Connection
	LED-DC+
	LED-DC-

Button Accessory



Plug wire length :300mm

- When mains electricity is on ,short press the button will enter the simulation test :
  with the green light flashing (once per second).A short press again turns off the simulation test:
  If no short press,the simulation test will automatically shut down after 5 seconds and switch to mains electricity mode.

- When mains electricity is on ,press and hold the button for 3 seconds to enter the monthly inspection test :
  The green light flashes (three times per second).A short press turns off the monthly inspection test:
  If no short press, the monthly inspection mode will automatically shut down after 1 minute and switch mians electricity mode.

- When mains electricity is on, press and hold the button for 6 seconds to enter the annual inspection test:
  The green light flashes (three times per second).A short press turns off the annual inspection test
  If no short press, the annual inspection mode will automatically shut down after 2 minutes and switch mains electricity mode.

- Shutting down the driver circuit system in the emergency status:
  In an emergency state,a short press of the button will deactived the emergency state.
  Activate the emergency function after connecting to the city electricity again

Indicator Light Status

- Charging- indicator light flash on and off
- Fully charged - green light stays on
- Green light: In emergency mode,the green indictor light blinks slowly
- Battery not connected (not plugged in)- red light flashing slowly

Activate product function

- No-load protection:The red light flashes repidly for 30 seconds, Then the power circuit system shuts down automatically.
  It can only work normally after being reactivated by the mains power.

- Short-circuit protection:The power circuit system will automatically shut down one second after a short circuit is detected
  It can only resume normal operation after being reactiveted by the mains power

Autotest Mode

- Weekly check

  Connect to the mains electricity to start timing ,with each 7-day period as a cycle ,If the mains supply in interrupted midway,the timing will restart.
  When weekly check on, the emergency mode is autoatically activated, with the emergency duration is 5 minutes.
  After 5 minutes, it will automatically turn off and enter the charging mode.
  Weekly check indicator status-green light flashing slowly

- Monthly check

  Connect to the mains electricity to start timing ,with each 30-day period as a cycle ,If the mains supply in interrupted midway,the timing will restart.
  When monthly check on, the emergency mode is autoatically activated, with the emergency duration is 30 minutes.
  After 30 minutes, it will automatically turn off and enter the charging mode.
  Monthly check indicator status-green light flashing quickly

- Yearly check

  Connect to the mains electricity to start timing ,with each 180-day period as a cycle ,If the mains supply in interrupted midway,the timing will restart.
  When yearly check on, the emergency duration lasts until the battery is fully discharged, Once discharged , it will automatically turn off and enter the charging mode.
  Yearly check indicator status-green light flashing extremely quickly
  In any of the above three testing steps, if a power outage occurs, emergency response must be given priority. If a power outage occurs before steps 2, 3, and 4 are completed or during the testing process, the system will enter the emergency state, and the timing will restart once the power is restored.

- After installation and under the condition of being connected to the mains power,The weekly check ,monthly check,and annual check will be automatically carried out in

Caution

- Connecting to the main power must be done by professional electricians or technical personnel.
  Make sure to cut off the power first before connecting the circuit. Never operate with live electricity, otherwise accidents may occur easily.

- When installing and using the battery, please keep it away from heat sources and operate it within the specified working range.

- For batteries that are not used for a long time ,it is recommended to charge and discharge them at least once every six months.

- The storage temperature should range from 0°Cto 35°C and the humidity should be less than 85% to avoid shortening the battery storage time.

- When using the emergency battery for the first time ,if the battery is dead or the emergency function can not be activated,
  Please activate the emergency system by connecting to the mains power supply and charge the battery for 24 hours before activating the emergency function,Please use the original emergency battery provided