

Specification of LEEER-4D (L/H)

- Thanks for purchasing Mini UPS LEEER-4D(L/H). Please read the operating manual carefully before use.

Product Feature:

- 1 • First movable mini reserve DC power supply in the world.
- 2 • It could be taken to anywhere after full-charged, it does not need AC start-up but only turn on the switch.
- 3 • DC power output.
- 4 • Specially designed for small devices that require DC power.
- 5 • Suitable for power supply of the equipment that needs DC power supply when traveling tourism, camping, outdoor communication equipment, portable electrical appliances etc
- 6 • This product choose environment friendly, large capacity lithium-ion battery which has the characteristic of light weight, small size and long battery life. It can be guaranteed to charge and discharge more than 500 times.
- 7 • Installation: Connect the mini UPS to the power socket, the battery will be charged automatically regardless of whether the switch is on or off. But be sure to turn on the switch when using or on standby.
- 8 • This product is set to be automatic intelligent charging. When the charging reaches the maximum capacity of the battery, the charging stops automatically. When the battery capacity is insufficient, the charging will start automatically.
- 9 • The mini UPS is only suitable for indoor use, it cannot be used in damp places and places with temperature over 45°C

Product Description:

- 1 • When using commercial power, the switch can be used to control output or do not output DC power.
- 2 • Use soft start technology when used in moving state, which better protect the load from current impact.
- 3 • Wide input voltage (65-265V)
- 4 • Environment friendly lithium ion battery
- 5 • No minimum load limitation
- 6 • With buzzer and light alarm (could be canceled or equipped)
- 7 • Battery low voltage protection
- 8 • Power supply high voltage protection
- 9 • Load and overload protection
- 10 • Output short circuit protection
- 11 • Lightning protection design
- 12 • Surge protection
- 13 • Fault automatic shutdown design
- 14 • Two AC outlet outputs. When the commercial power is available, it can be connected to the commercial power at the same time

PS: Corresponding battery of each LEEER-4D model

LEEER-4D Ni-MH battery nominal voltage 14.4V maximum capacity 2.4AH

LEEER-4D (L) Lithium ion battery nominal voltage 14.8V maximum capacity 3.4AH

LEEER-4D (H) Lithium ion battery nominal voltage 14.8V maximum capacity 6.8AH

Operating instruction:

- 1 • First use must be fully charged. Charging for 4 hours (L) / 8 hours (H) with switch off.
- 2 • Take the movable mini DC UPS to the desired location, connect it to the load electrical appliance, open the switch and the product is in the moving power supply mode.
- 3 • This product could also be used as fixed power supply.

- 4 • When the battery is exhausted, Mini DC UPS will automatically shut down and enter the protection mode. Please recharge before use.
- 5 • Do not exceed the rated power when using.
- 6 • Ideal load is resistive. Be careful to use with inductive load and capacitance load, unintended consequences may occur.
- 7 • Overload use or operation errors may make the product enter into protection mode. It could automatically restore after eliminating improper operation.

Notice and warranty:

- 1 • Please keep the product in a cool and ventilated place, avoid heat or moisture. Turn off the switch immediately when not in use.
- 2 • Do not privately unwrap the back cover to avoid high voltage shock.
- 3 • It has a delay about 0.5 second when start in moving mode, please check if it is permitted by the load.
- 4 • This product is precision equipment, please do not repair yourself when it goes wrong.
- 5 • Improper use will cause the damage of the equipment.
- 6 • Enjoy one-year warranty under the premise of correct use of the product.

Technical parameter:

Item		Specification
Rated power (W)		60 (short- time 70)W
Input	Rated voltage	AC 65-265 v
	Frequency	47-63Hz
Output	Rated voltage	DC 12V $\pm 2\%$
	Frequency	0Hz
	Switching time	less than 10 millisecond
	Output control	Manual and automatic are optional
	Manual output delay	Start less than 0.5 seconds after switch closed
Battery	Battery voltage	Nominal voltage 14.8V / fully charged 16.8V
	Battery capacity	3.4AH(L) / 6.8AH(H)
	Charge time	3.5H(L) (Switch is off) 7 H(H) (Switch is off)
	Standby support time	Over 30mins(L) \ 60mins(H) (under the maximum load)
	Material	lithium ion battery
Protection	Battery protection	low-voltage 11.0V(± 0.5 V)
	Reuse	AC activation or manual activation
	Surge protection	Interior surge protection
	High voltage protection	Interior high voltage protection
	Low voltage protection	Interior low voltage protection
	Lightning protection	Prevention of lightning
Size(mm*mm*mm)		195*142*45
Net weight		935g (L) / 1125g (H) ± 5 g
Working environment temperature		-18°C to 45°C
Working environment humidity		Below 95%