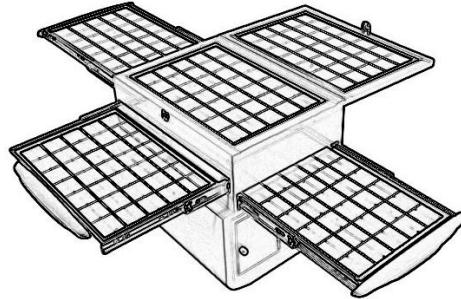


Douglas X

User Manual



UTICA SINGAPORE



Thank you for purchasing UTICA® Douglas X. Please read this instructions carefully before use.

Douglas X is widely used for fieldwork, emergency off-grid situations and military applications. The product is also used as the supply to meet the demand of rural home's electricity consumption.

The main features as follow:

1. Mobility and compact designed with high solar energy performance.
2. Drawers type designed solar panels. The solar panels can be conveniently shifted back into the drawers during transportation. The solar panels could be easily activated to harness solar energy.
3. Kinds of output interface to meet the requirements of various domestic appliances.
4. Easy to move by the 4 multi-directional wheels.
5. Built in Power Processing Unit (PPU) to convert sunlight into electricity.
6. User-friendly and quick to setup with LED display interface.

Electrical Parameters

Model	Solar panel(Wp)	Battery	Inverter	controller
Douglas X	100	12V 65AH (65AH)	1KVA	12V 20A

Data Display of DC Input and AC Output

Interface Type	Voltage (V)	Quantity
USB Output Interface	5	2
DC Output Interface	12	4
AC Output Socket	220	2
AC Output Line-Bank	220	2
AC220V Input Socket	100V~240 50/60Hz	1
Solar Panel Expanded Terminal	12V	1
External Battery Terminal	12V	1

AC Electric Appliance Operating Time:

Electrical Appliances	Watt	Expected Operation Time
3W LED - 3W LED lamp	3	233 hours
Radio	4	175 hours
Wireless Router	10	70 hours
Portable Stereo	20	35 hours

40W Light Bulb	40	17 hours
Laptop Computer	45	15 hours
Mini Refrigerator or Warmer	60	11 hours
19" TV LCD	70	10 hours
Fax machine	120	5 hours
Desktop Computer with 15" Monitor	200	3 hours
Standard Domestic Refrigerator / freezer(2 cubic feet)	540	1 hour
Microwave Oven	1000	30 minutes

Douglas X System Functions:

Switch of power process unit:

Inverting switch to convert solar power DC to domestic AC electricity.

Function keys of inverting system:

Only use to adjust the functions. Don't use under normal circumstances.

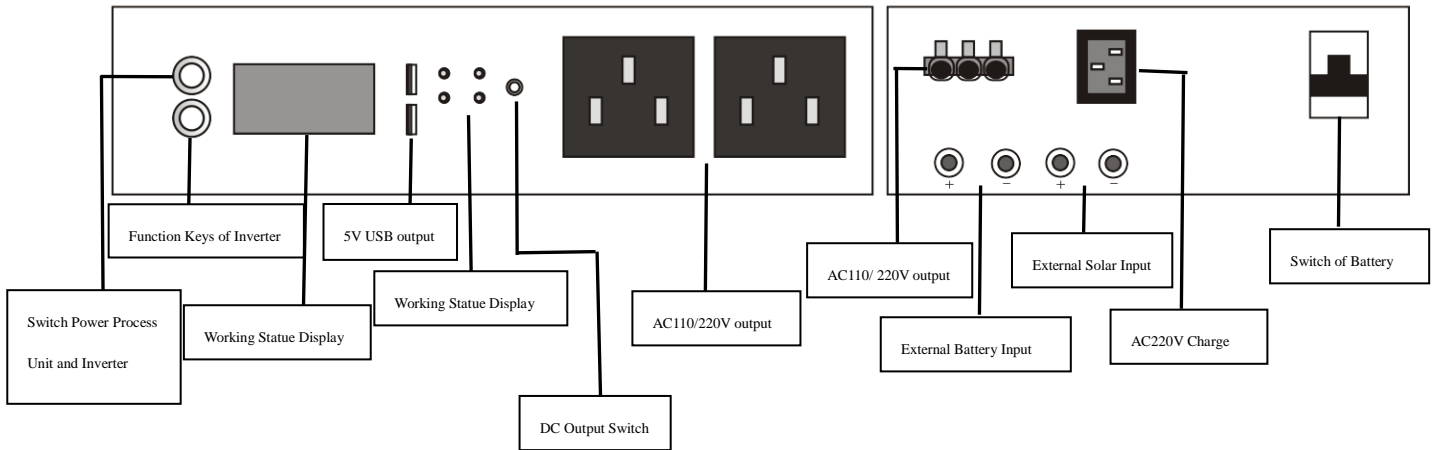
DC switch:

5V USB and 12V Input interface switch

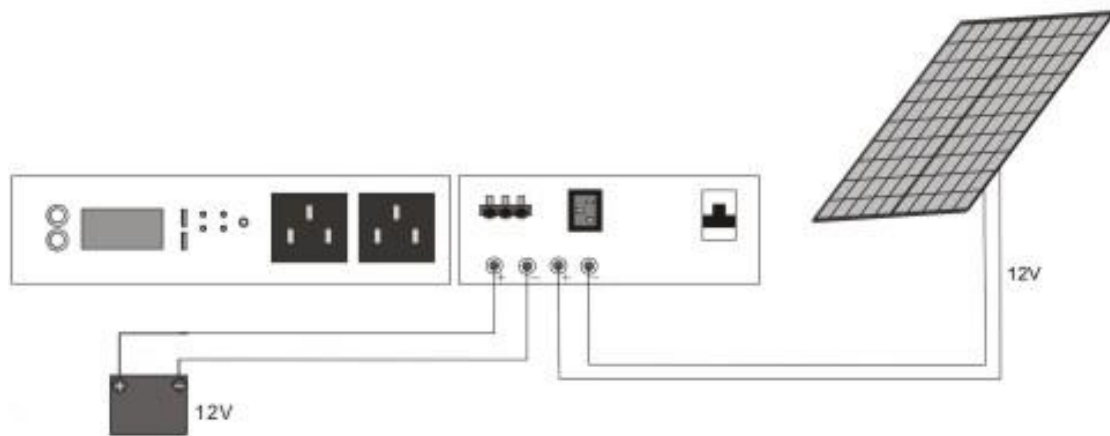
Master switch of Battery:

Please open the Master switch of Battery before use.

Function Diagram



Scalable for additional solar panel and battery setup diagram:



Attention: Please connect the poles by “+ -”. Please make sure that all connections is correct before operation.

Attentions:

- Please pay attention to the remaining capacity of the battery especially during rainy and cloudy days.
- Please constantly sunlight charge the battery (extend solar panels as below) to avoid the battery power loss.



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