

INDIA'S-MOST-INTELLIGENT SOLAR HOME UPS

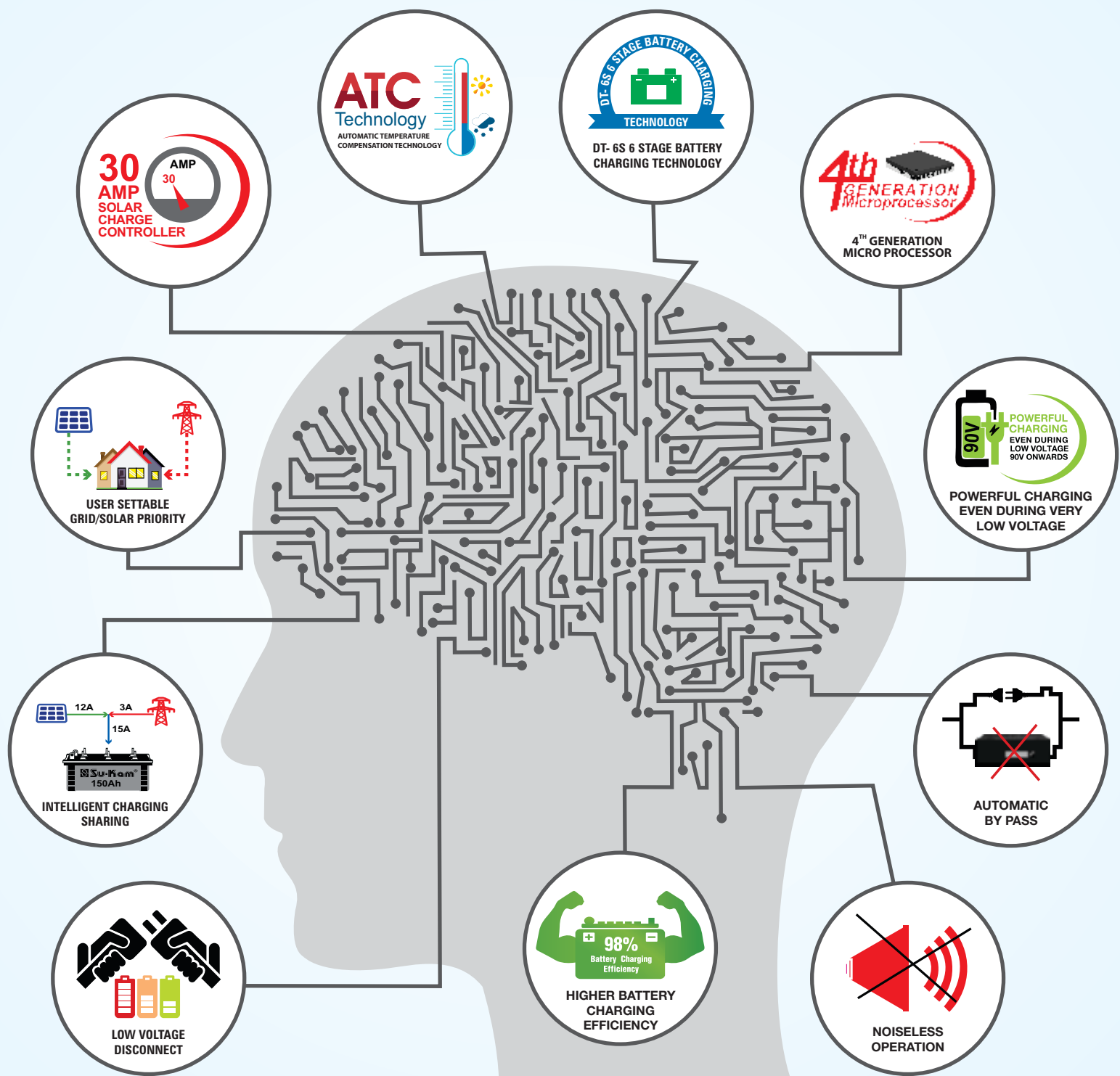


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BRAINY
ECO
SOLAR HOME UPS 1100

Solar Hybrid UPS

INTELLIGENCE INTEGRATED



HOW BRAINY ECO WORKS

Solar Power (Priority)



Brainy Eco is an intelligent solar UPS that can simultaneously run the load and charge the battery. Brainy Eco is designed to give priority to the Solar Power and uses Grid/DG Power only when the Solar Power/Battery Charge is insufficient to meet the load requirements.

Mains Supply



Brainy Eco 1100 / 12V



Load



Battery

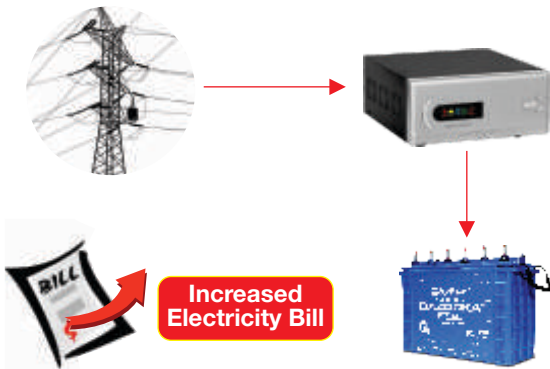
BIG SAVINGS ON ELECTRICITY BILL



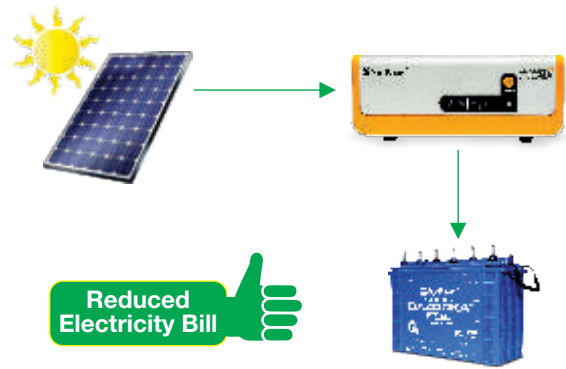
DID YOU KNOW?

CHARGING YOUR BATTERY THROUGH GRID POWER INCREASES YOUR ELECTRICITY BILL

BATTERY CHARGING THROUGH GRID



BATTERY CHARGING THROUGH SOLAR



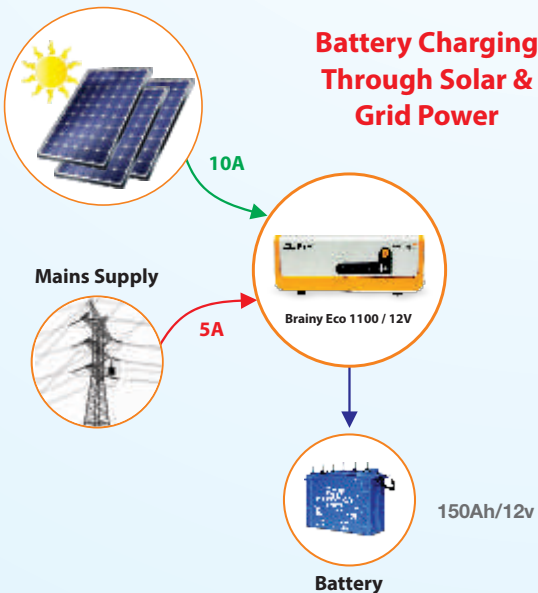
USER SETTABLE GRID CHARGING ENABLE/DISABLE SWITCH

GRID CHARGING ENABLED



Solar Power Panel

Battery Charging Through Solar & Grid Power

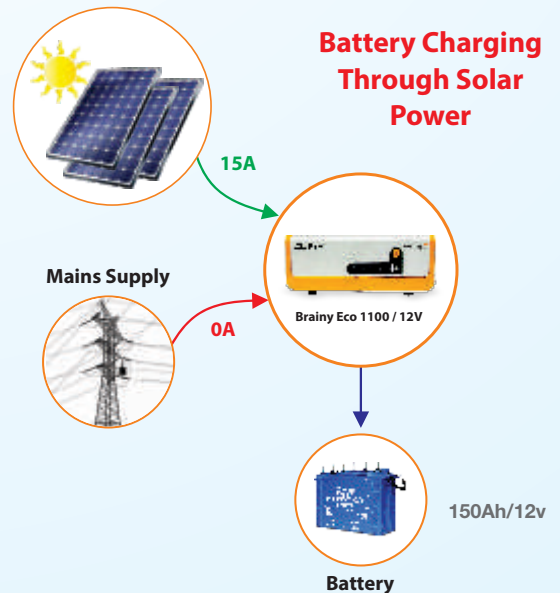


GRID CHARGING DISABLED



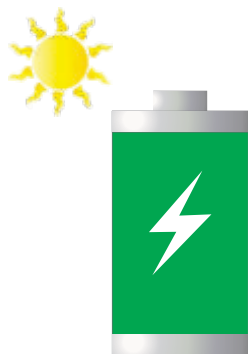
Solar Power Panel

Battery Charging Through Solar Power



LONGER BATTERY LIFE

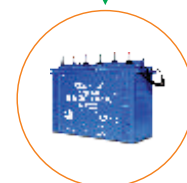
When The Battery is Charged Through Solar Power it Leads to:



98% Battery
Charging Efficiency



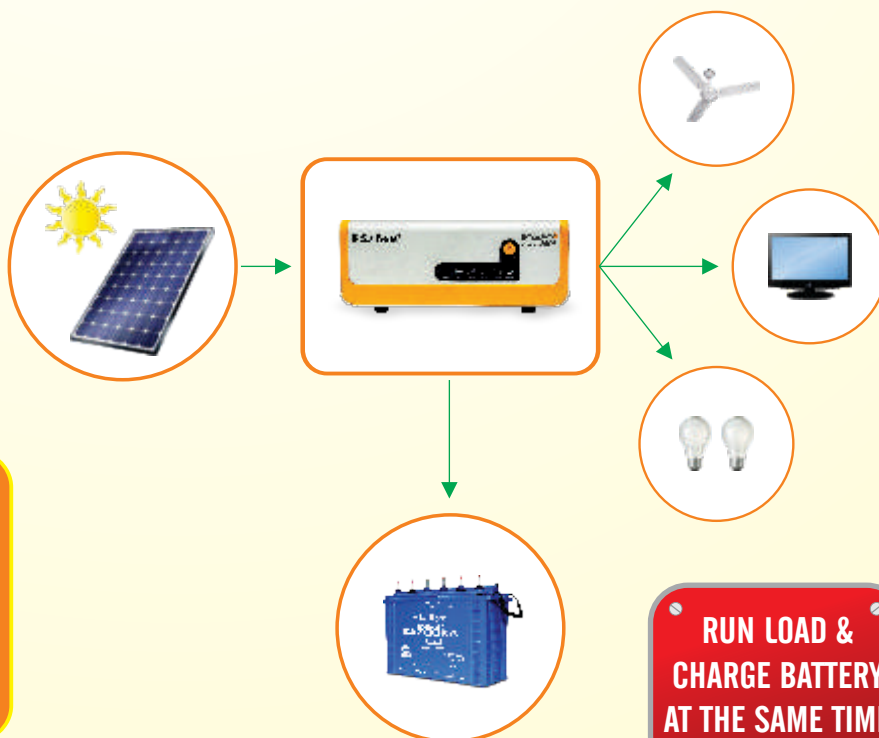
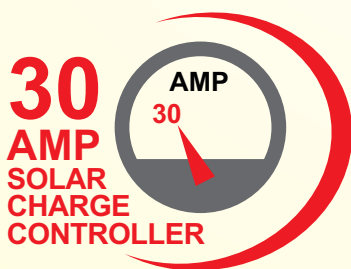
300Wp



150Ah

At Least **6 Months**
Increase in Battery Life

POWER BUILT-IN 30 AMP SOLAR CHARGING



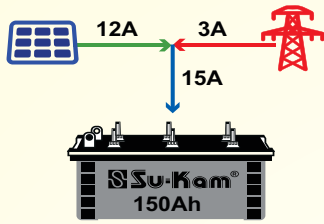
Powerful enough to simultaneously run Electrical Appliances and charge the battery.

RUN LOAD & CHARGE BATTERY AT THE SAME TIME

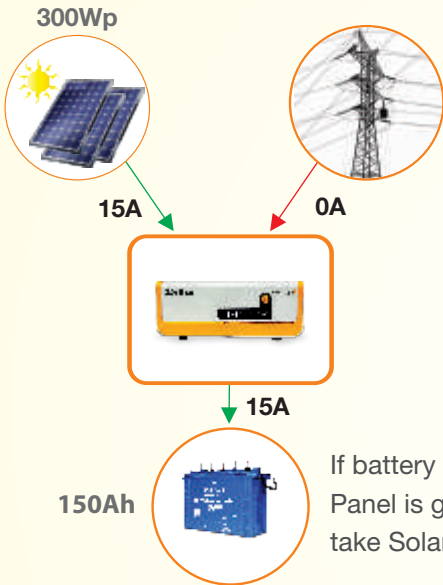
INTELLIGENT CHARGING THROUGH SOLAR & GRID



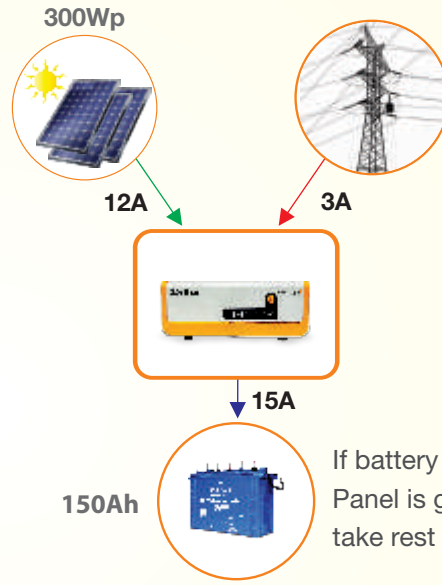
INTELLIGENT CHARGING SHARING



It selects Solar power as a priority over grid power to charge the battery and take power from the grid only if required.

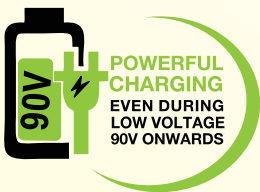


If battery needs 15A and Solar Panel is giving 15A, then it will take Solar Power only.



If battery needs 15A and Solar Panel is giving 12A, then it will take rest 3A from Grid.

POWERFUL CHARGING ON LOW VOLTAGE

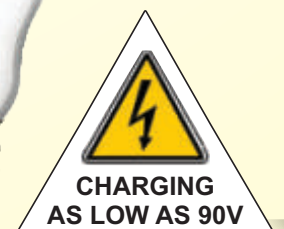


Charges even at 90V, thus ideal for areas which have low voltage problems.

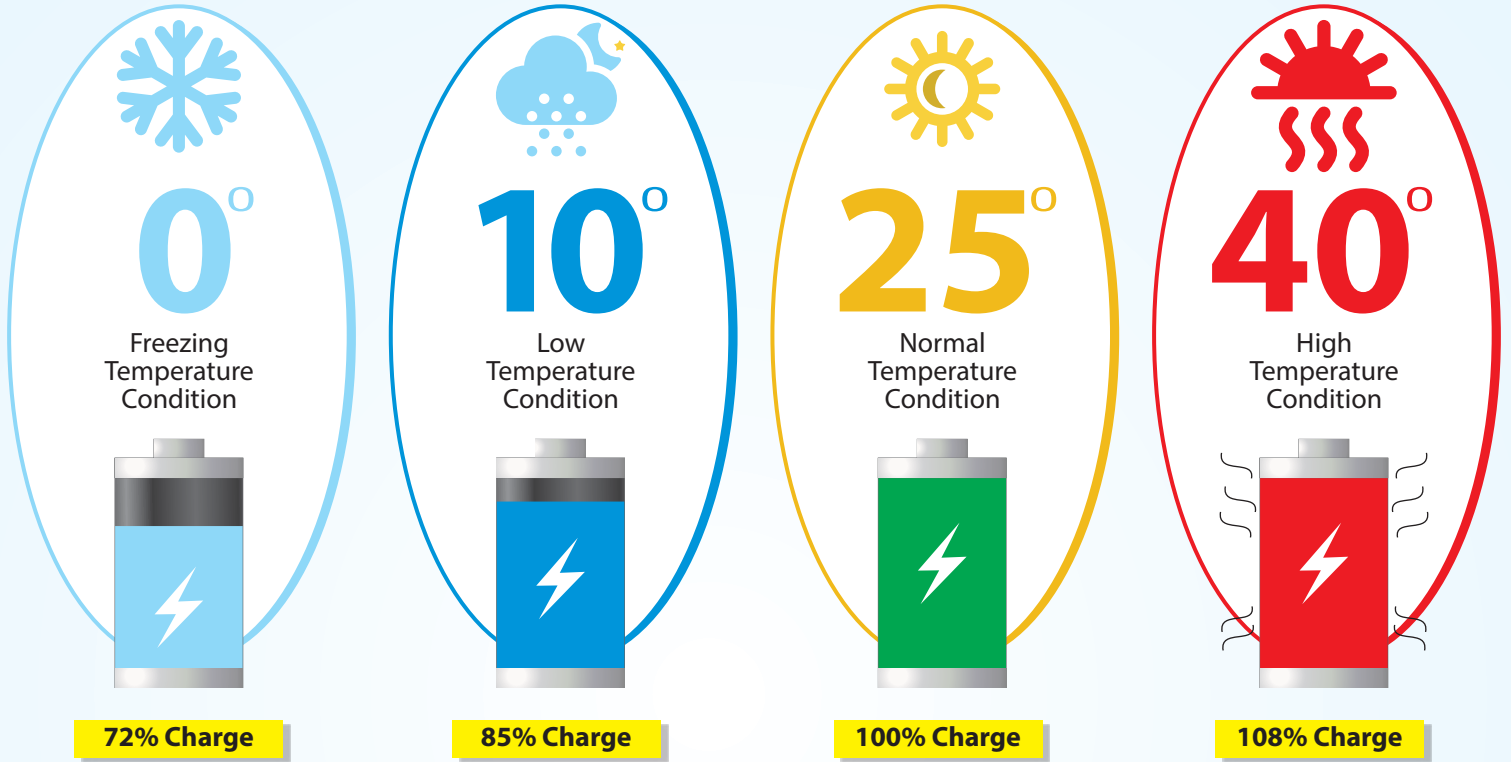
Typically, the UPS batteries require minimum 130 volt for Charging.

Brainy Eco Charges the battery with voltage as low as 90 volt.

Most effective solution for remote places where the electricity voltage is not high.

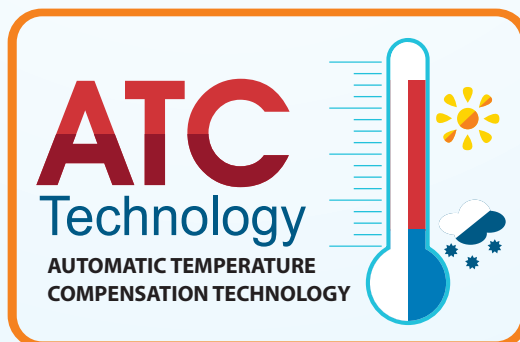


AUTOMATIC TEMPERATURE COMPENSATION



ATC involves a hi-tech sensor, which senses the outside ambient temperature and accordingly adjusts the charging of batteries. The sensor automatically controls over-charging and under-charging, increases the battery life by at least 6 months and provides excellent battery back-up.

Su-Kam's First Home UPS with ATC Technology senses the outside temperature and accordingly adjusts charging of batteries.



ATC Sensor is kept close to the battery bank that determines battery temperature and automatically adjust the target boost voltage.

This new charging system monitors the battery temperature and automatically regulates the boost voltage.

CONTROLS OVER/UNDER CHARGING

INCREASES BATTERY LIFE BY ATLEAST 6 MONTHS

This automatic sensor controls over-charging and under-charging thereby provides excellent battery back-up and increases battery life by at least 6 months.

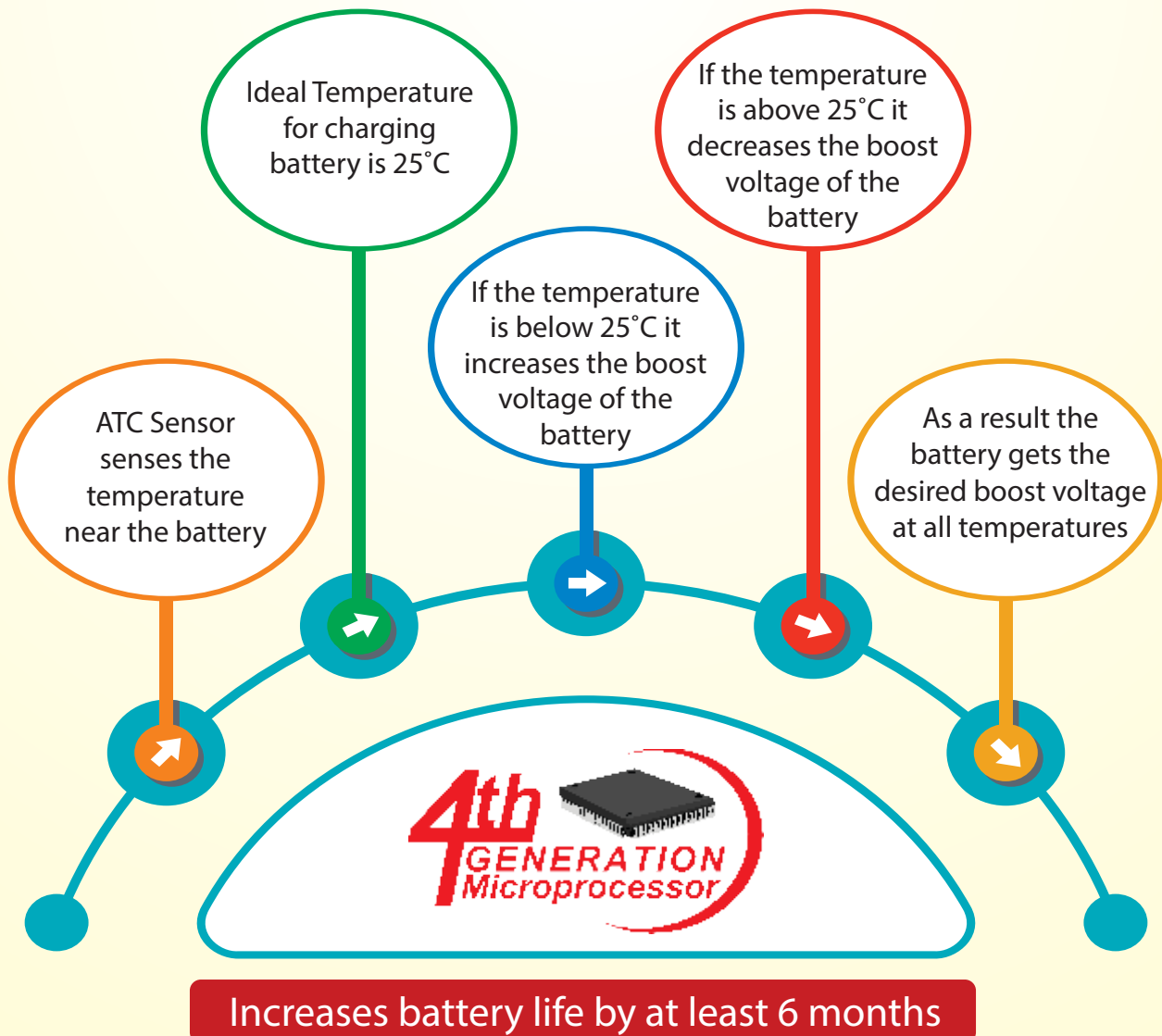
BENEFITS OF ATC TECHNOLOGY

1
Controls over-charging and under-charging of battery

2
Low Energy Wastage

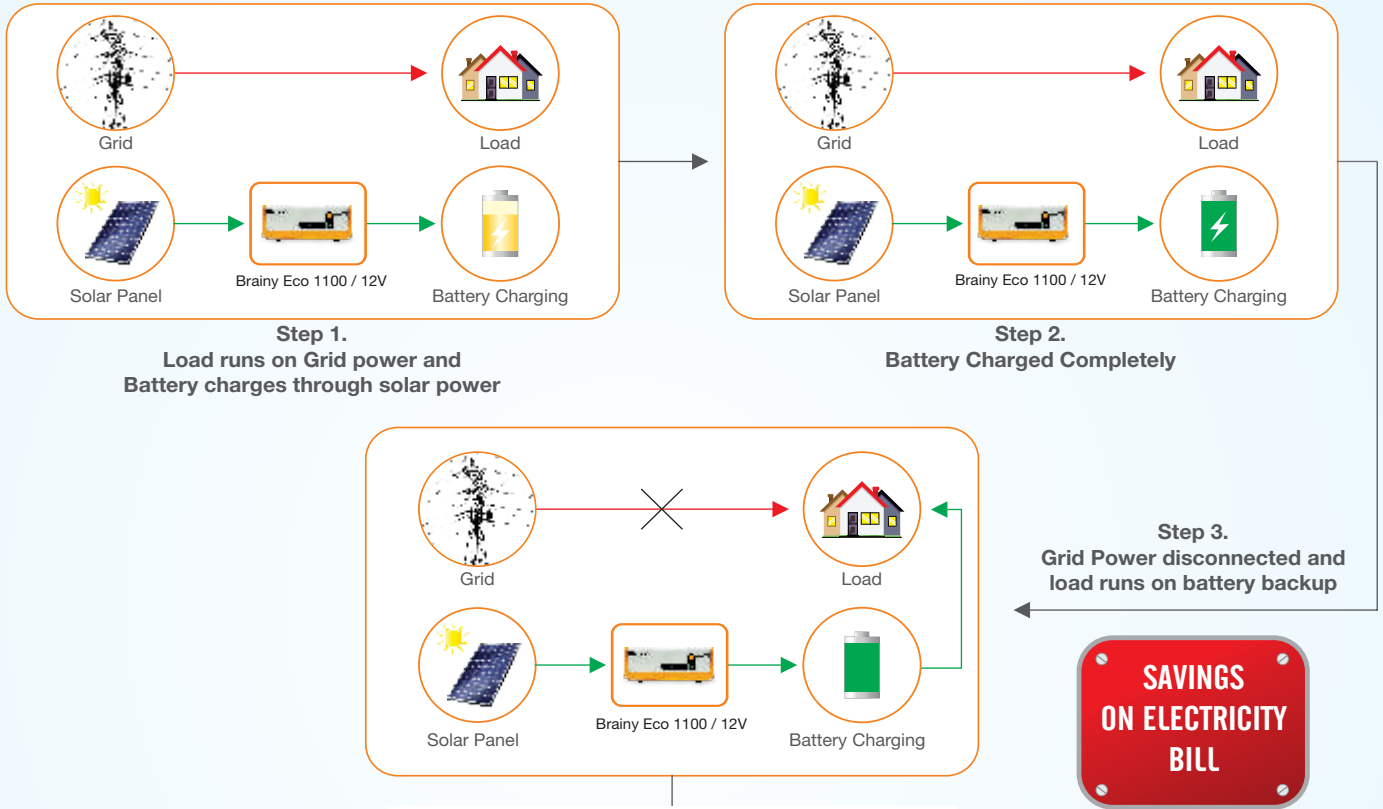
3
Increases battery life by at least 6 months

THE WORKING PROCESS

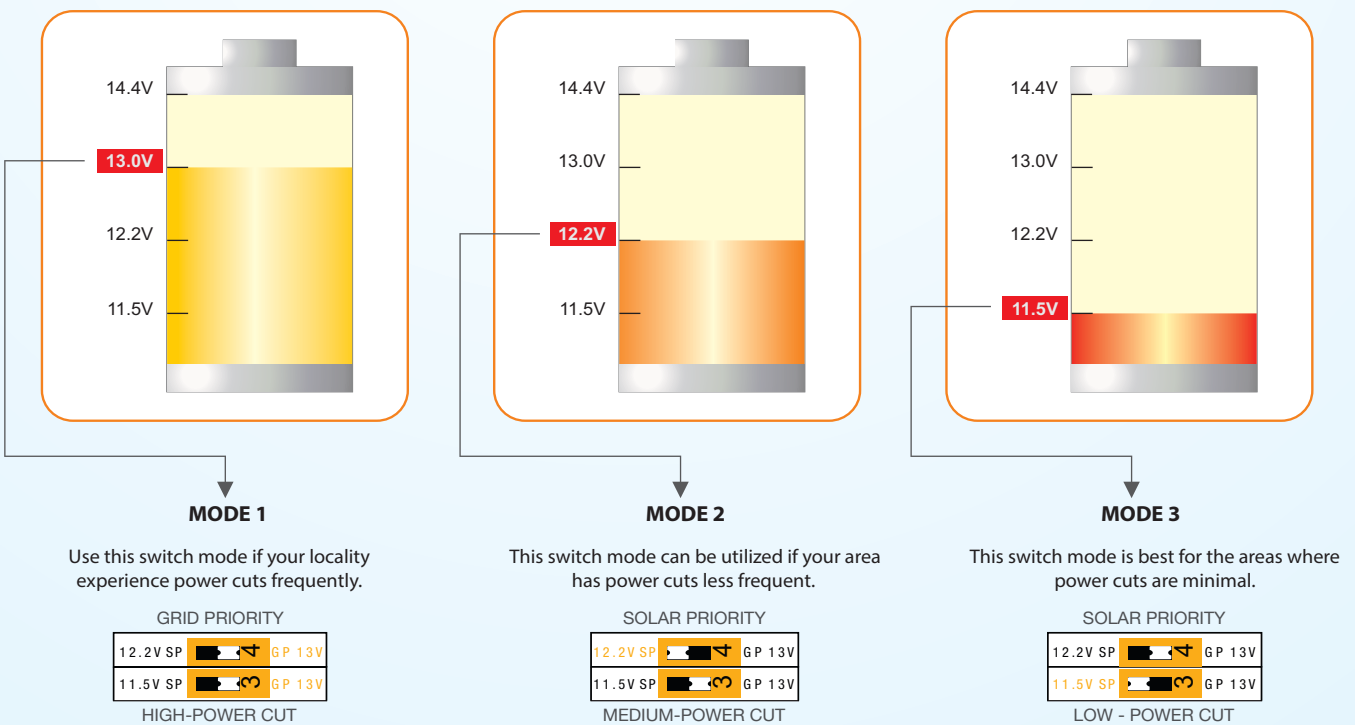


USER SETTABLE SOLAR/GRID PRIORITY

GRID CHARGING DISABLED

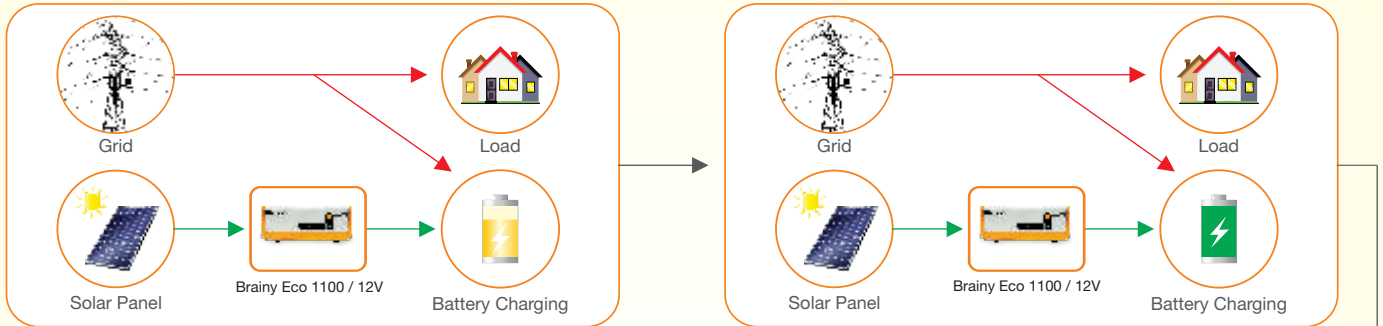


USER SETTABLE MODES



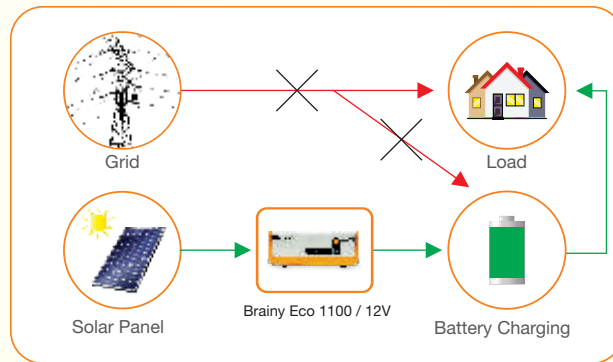
USER SETTABLE SOLAR/GRID PRIORITY

GRID CHARGING ENABLED

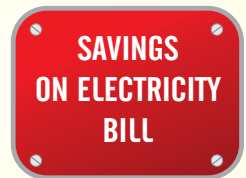


Step 1.
Load runs on grid power and
Battery charges through both Solar and Grid Power

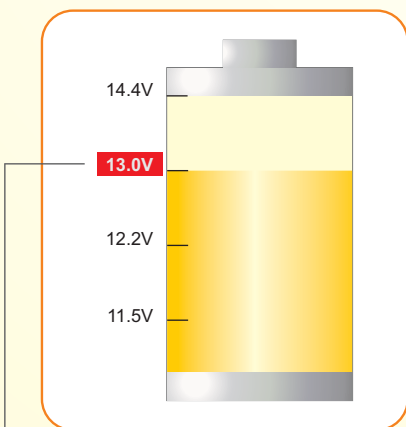
Step 2.
Battery Charged Completely



Step 3.
Grid Power disconnected and
load runs on solar backup

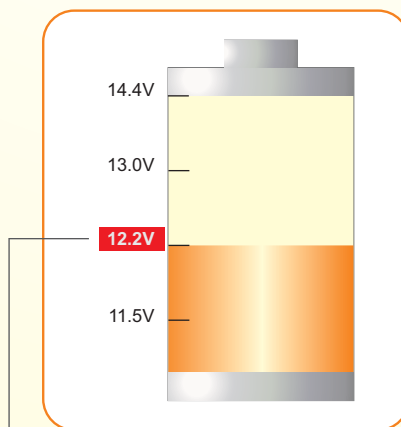
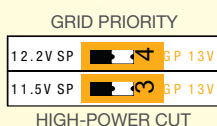


USER SETTABLE MODES



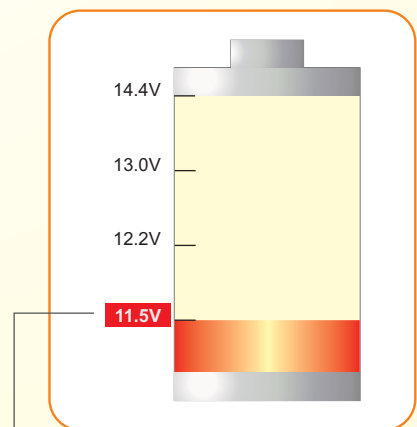
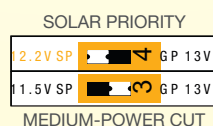
MODE 1

Use this switch mode if your locality experience power cuts frequently.



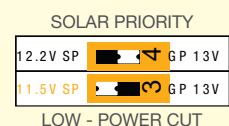
MODE 2

This switch mode can be utilized if your area has power cuts less frequent.



MODE 3

This switch mode is best for the areas where power cuts are minimal.



INCREASE YOUR BATTERY LIFE WITH LVD



Low Voltage Disconnect

Brainy Eco comes with a choice for low voltage selection and low voltage disconnect (LVD). Commonly all UPS has a backup cut at 10.5 whereas Brainy Eco gives a backup cut at 11 which makes it useful for the areas with less frequent power cuts.

POWER OF 11
LOW VOLTAGE SELECTION

Backup cut at 11V
Less backup more battery life

Backup cut at 10.5V
More backup time
Less battery life

Less than 10.5V
Deep Discharge

ADVANTAGE OF LOW VOLTAGE DISCONNECT (LVD)

- ▶ Save battery from deep discharge
- ▶ Faster battery charging
- ▶ Life of battery increases by least 3 months



PROTECTION TO YOUR HOME APPLIANCES



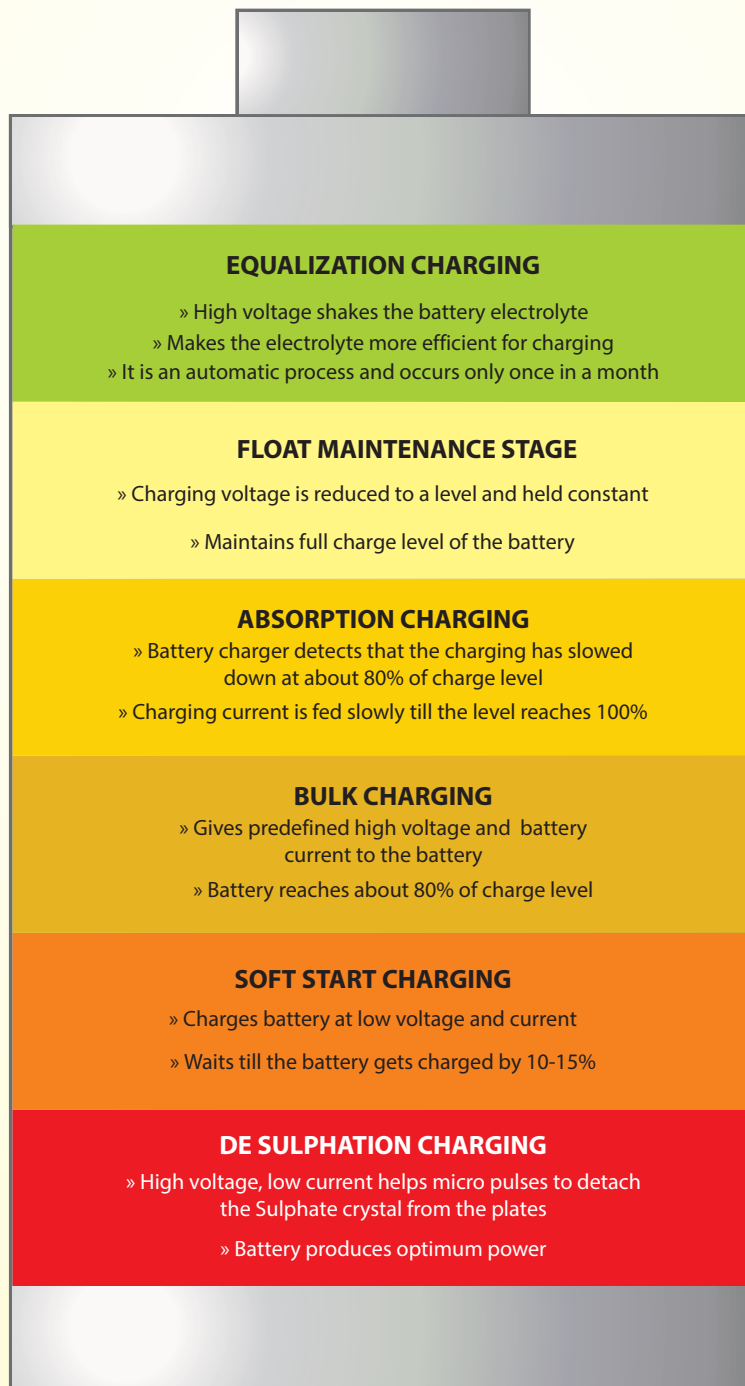
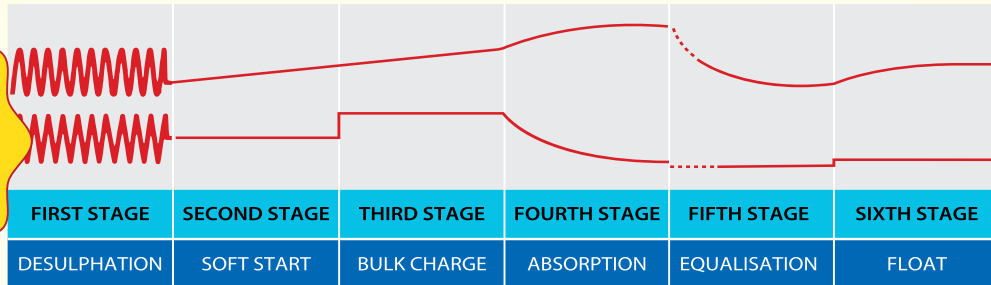
- ▶ Brainy Eco series is equipped with MCB (Miniature Circuit Breaker)/ Resettable Fuse
- ▶ Protects the system and appliances from overload and short circuit



DT-6S : 6 STAGE BATTERY CHARGING TECHNOLOGY

INTELLIGENT 6-STAGE BATTERY CHARGING

**DT-6S
6 STAGE
BATTERY CHARGING
TECHNOLOGY**
(Increases Battery
Life Upto 30%)

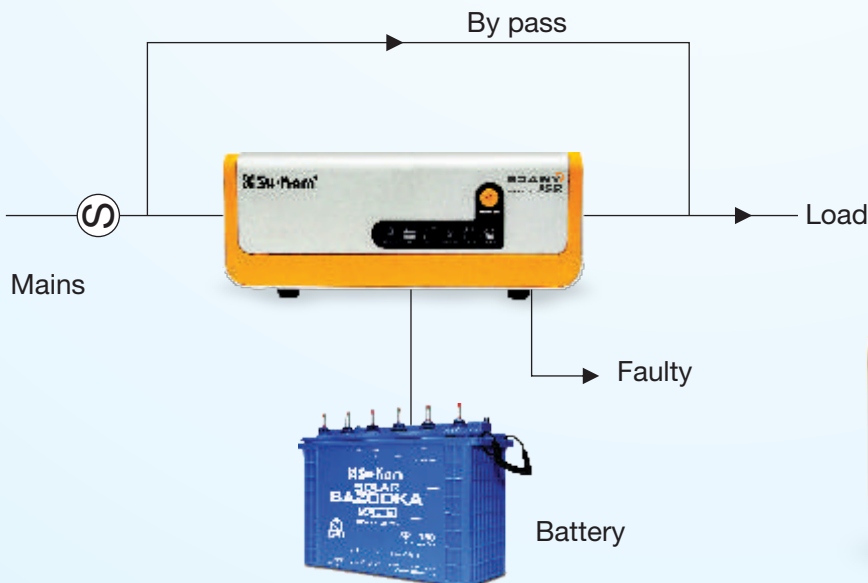


POWERFULL ENOUGH TO RUN 7 COMPUTERS*



*14 Inch TFT Monitor with Model 1100, Tested under ideal conditions for 7 computers.

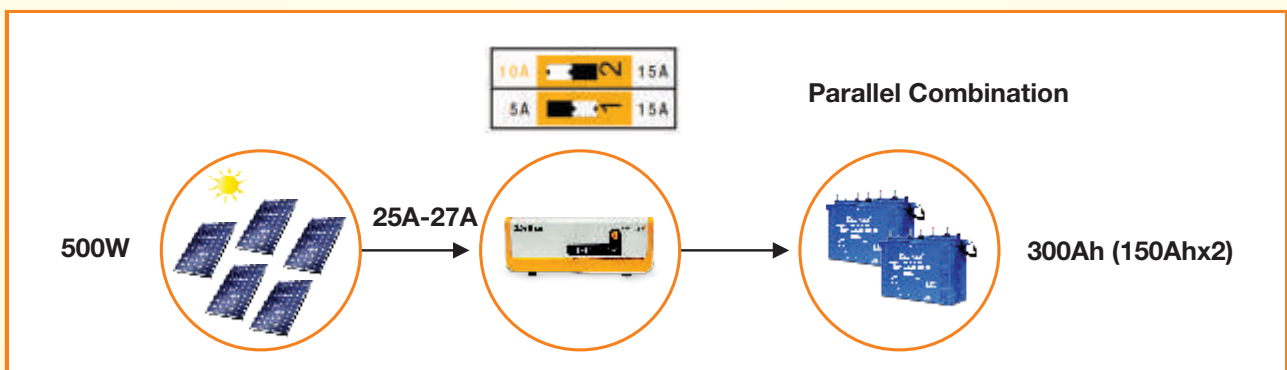
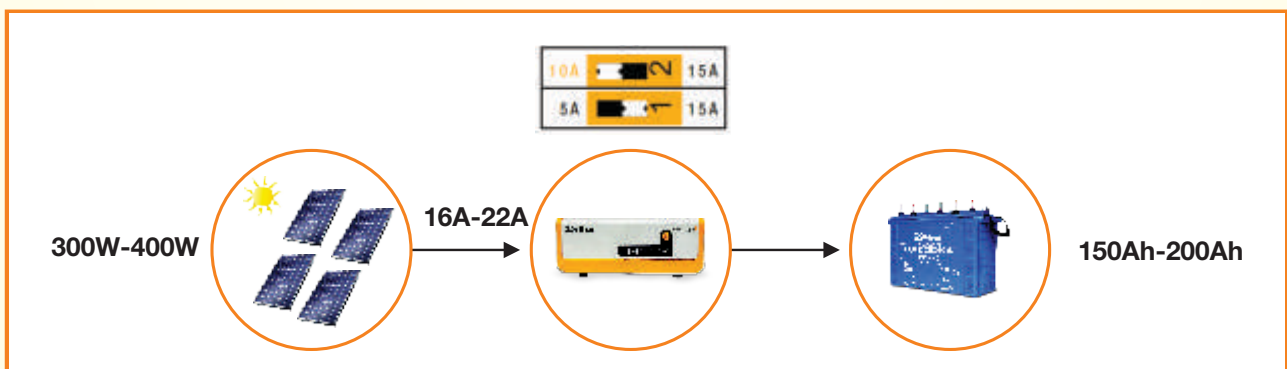
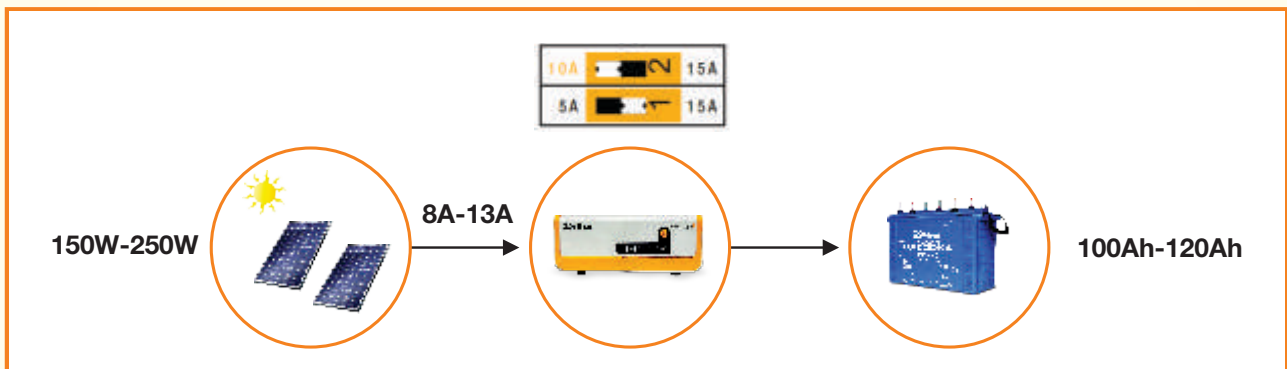
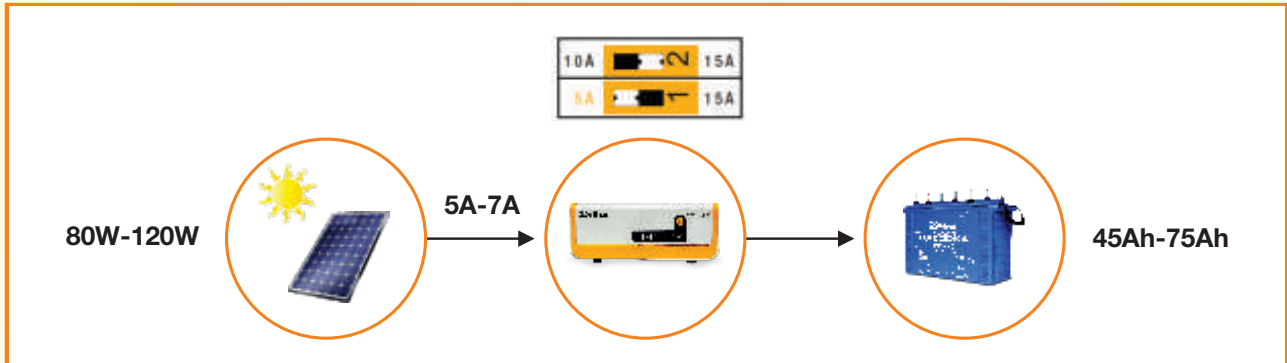
ENJOY UNINTERRUPTED POWER SUPPLY EVEN WHEN UPS FAILS



STATIC BYPASS SWITCH: This switch helps to bypass the electricity to mains whenever there is a failure in the inverter. This makes the system user-friendly and convenient.



FREEDOM TO CHOOSE BATTERY AND PANEL SIZE



CAUTION:

For 300W Solar Panel connect 1 battery of 150Ah.
However, for 400W-500W Solar Panel connect 2 Batteries of 150Ah/12V each in parallel connection.

POWERFUL COMBINATION

A mix of the most powerful UPS along with an unmatched choice of Solar Panels for maximum power generation



80Wp - 500Wp

+



Brainy Eco
1100 / 12V

+



45Ah - 300Ah



CAUTION:

For 300W Solar Panel connect 1 battery of 150Ah.
However, for 400W-500W Solar Panel connect 2 Batteries of 150Ah/12V each in parallel connection.

LOAD CHART

Model	Brainy Eco 1100 / 12V						
Options*							
	Computer	Printer	Television	Tubelight	Fan	Room Cooler	CFL
A	—	—	—	10	—	—	2
B	1	—	—	3	4	—	—
C	—	—	—	4	3	1	—
D	3	1	—	—	—	—	—
E	—	—	1	4	3	—	2

Note: Indicates values only, actual calculation depends on manufacturer's specification.
*CFL - 15W, Ceiling Fan - 3 (48mm 100 - 1200 mm sweep), TV - 19-21 inch, Tube light - 40W, Printer - 200W.
Application: Computer, Televisions, Printer, CFL / Bulbs, Tube Light, Fans, Room Cooler, Mixer Grinder etc.

Su-Kam
Ek nayi soch

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