

## INDIA'S-MOST-INTELLIGENT SOLAR HOME UPS

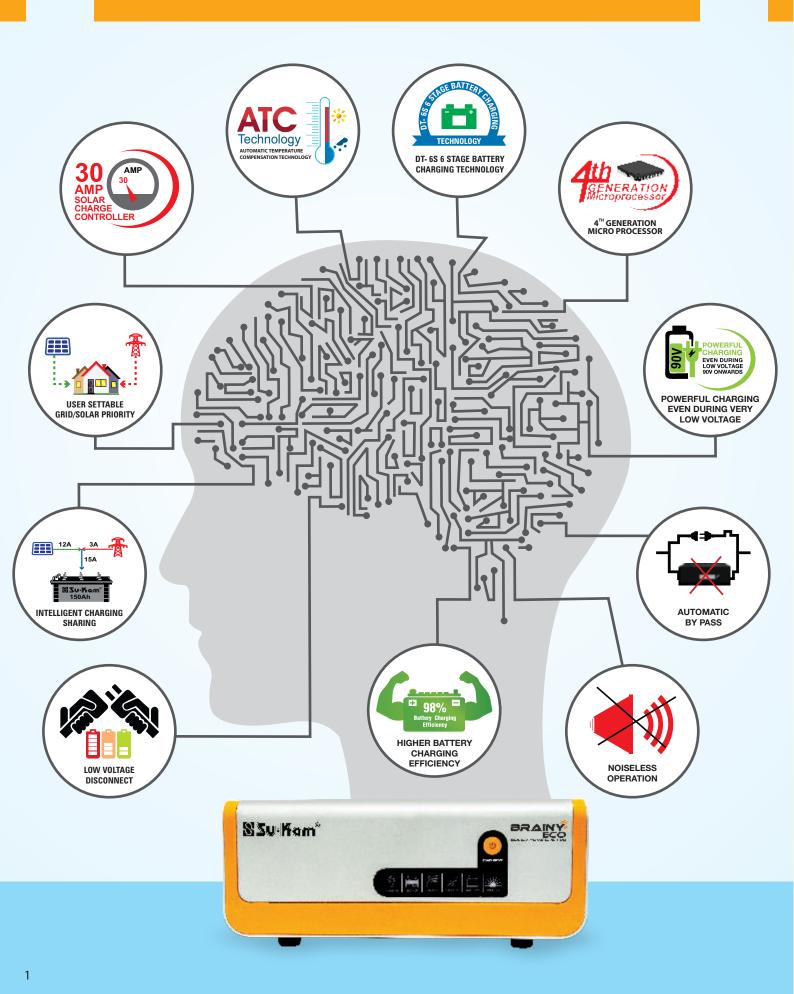




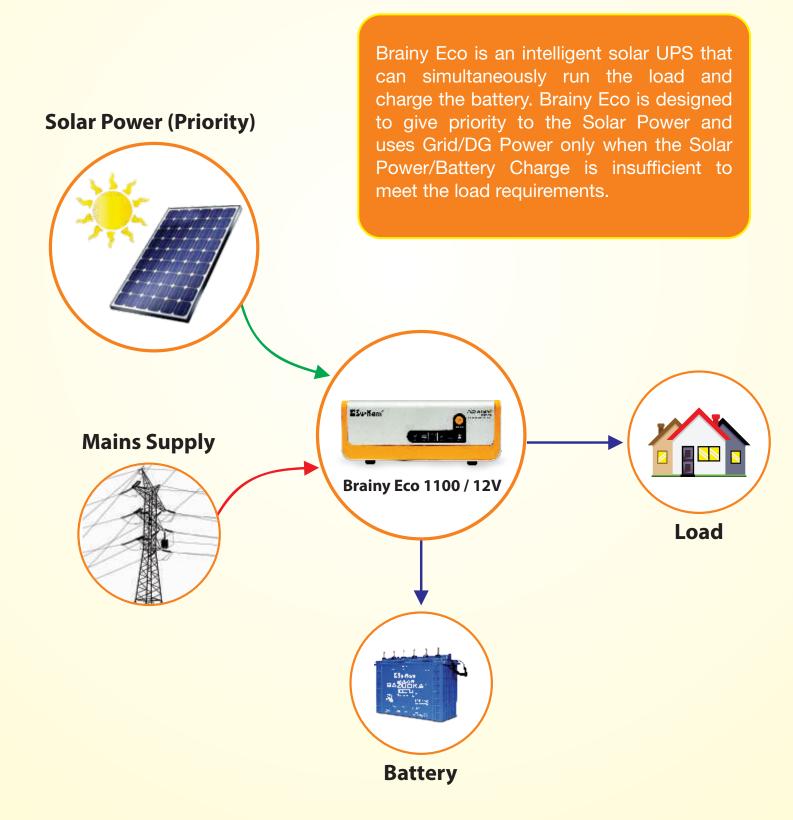
## **Solar Hybrid UPS**

www.su-kam.com

## **INTELLIGENCE INTEGRATED**



## **HOW BRAINY ECO WORKS**

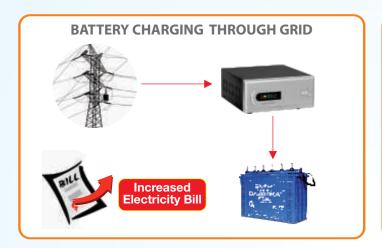


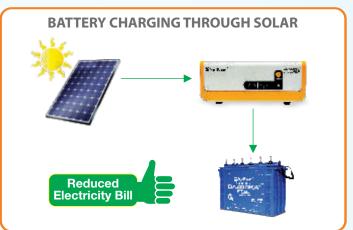
# BIG SAVINGS ON ELECTRICITY BILL



### **DID YOU KNOW?**

**CHARGING YOUR BATTERY THROUGH GRID POWER INCREASES YOUR ELECTRICITY BILL** 





# USER SETTABLE GRID CHARGING ENABLE/DISABLE SWITCH

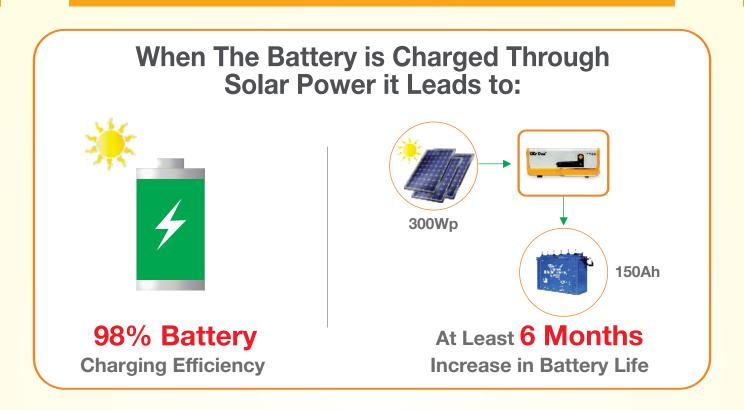
# Solar Power Panel Battery Charging Through Solar & Grid Power 10A Mains Supply Brainy Eco 1100/12V 150Ah/12v

**Battery** 

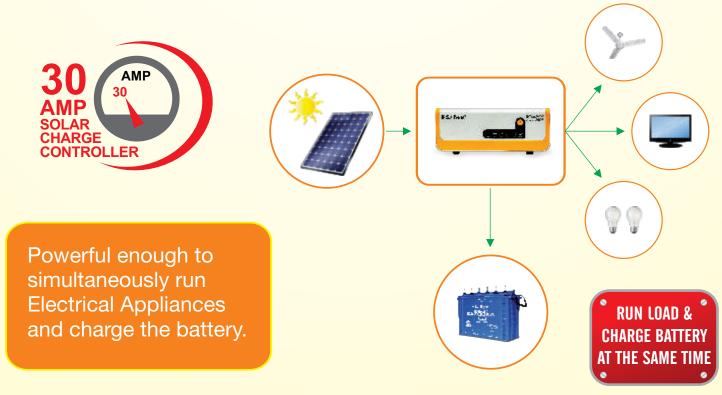
**GRID CHARGING ENABLED** 



### **LONGER BATTERY LIFE**



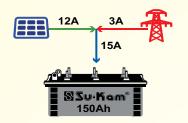
# POWER BUILT-IN 30 AMP SOLAR CHARGING



## 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.





## **POWERFUL CHARGING ON LOW VOLTAGE**



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

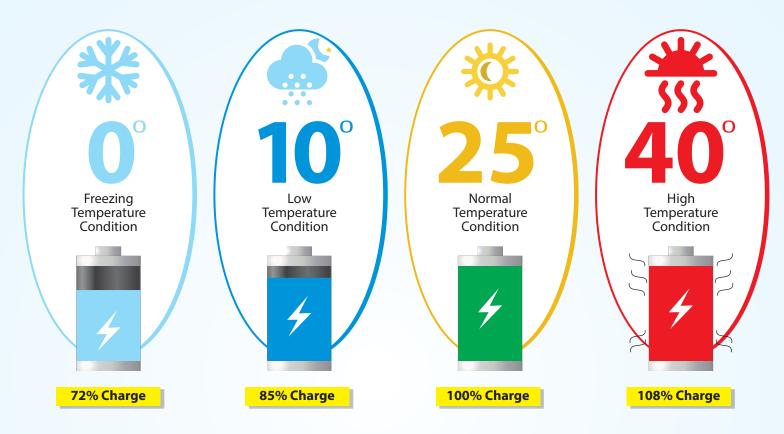
Typically, the UPS batteries require minimum 130 volt for Charging.

**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.

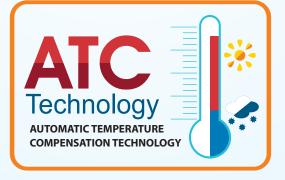


# AUTOMATIC TEMPERATURE COMPENSATION



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

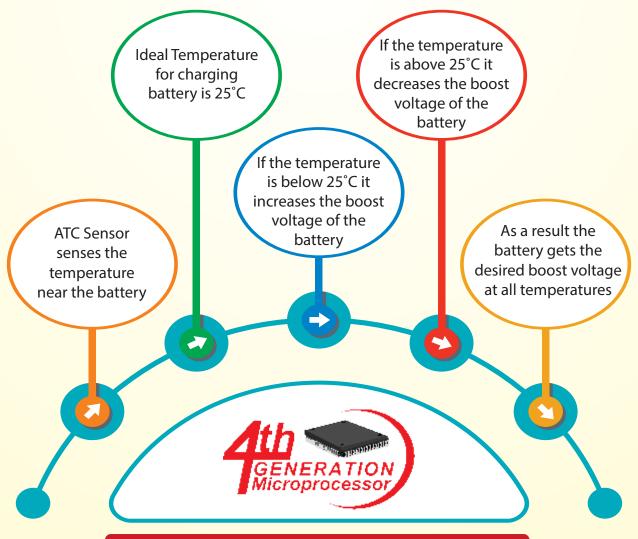
This automatic sensor controls over-charging and under-charging thereby provides excellent battery back-up and increases battery life by at least 6 months.

# BENEFITS OF ATC TECHNOLOGY

Controls over-charging and under-charging of battery

Low Energy Wastage Increases battery life by at least 6 months

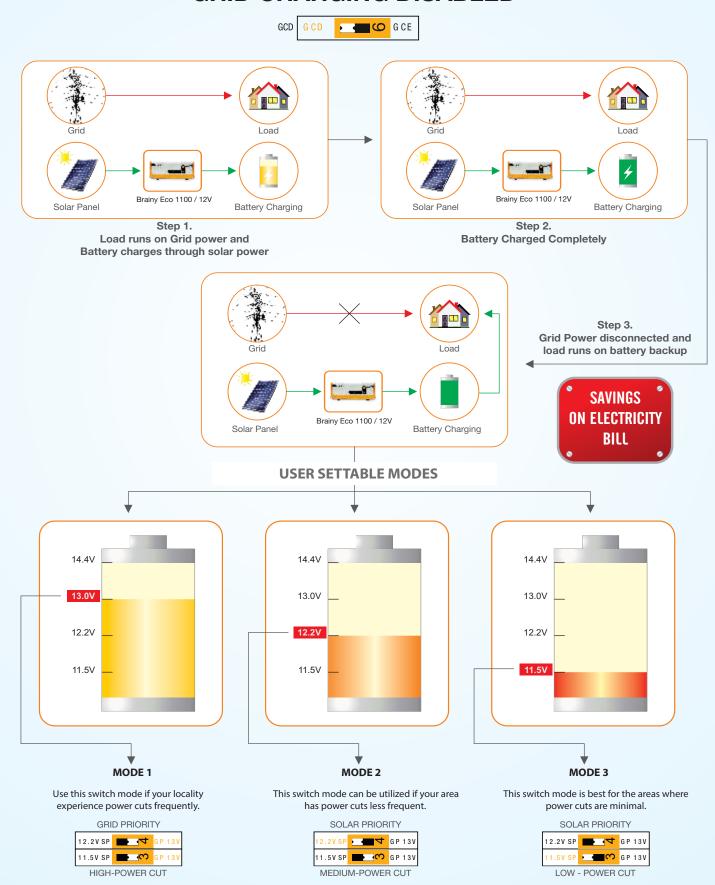
### **THE WORKING PROCESS**



Increases battery life by at least 6 months

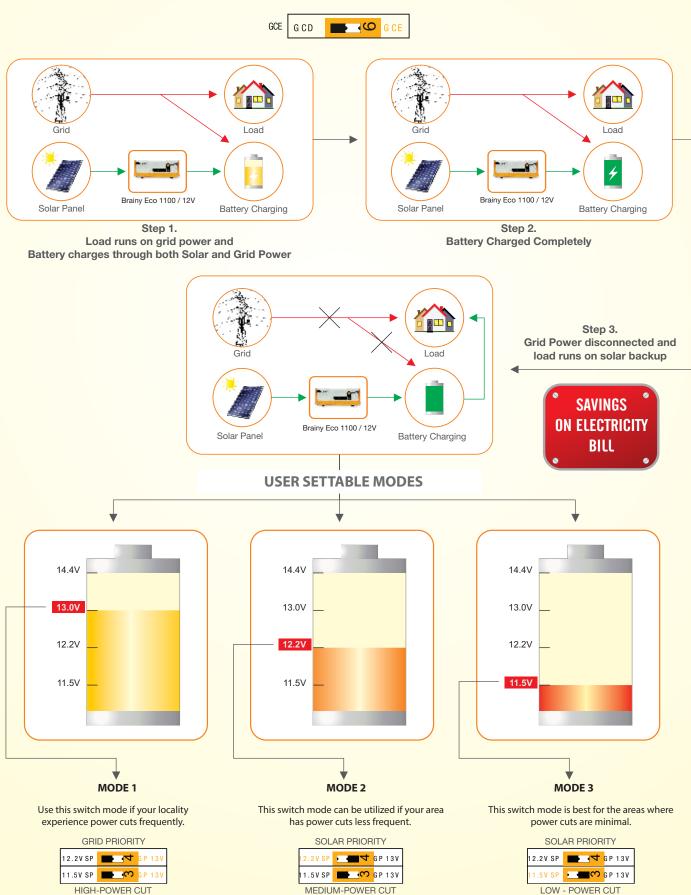
# USER SETTABLE SOLAR/GRID PRIORITY

#### **GRID CHARGING DISABLED**



# USER SETTABLE SOLAR/GRID PRIORITY

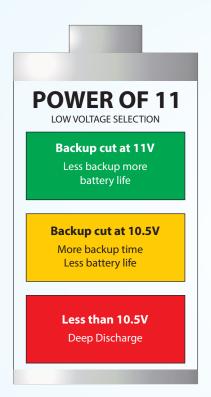
#### **GRID CHARGING ENABLED**



# INCREASE YOUR BATTERY LIFE WITH LVD



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.



## ADVANTAGE OF LOW VOLTAGE DISCONNECT (LVD)

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

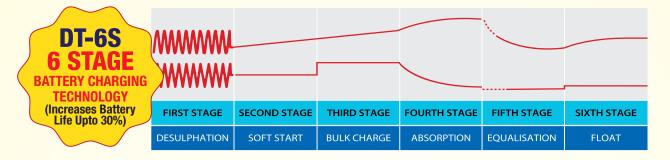


# PROTECTION TO YOUR HOME APPLIANCES



# **DT-6S: 6 STAGE BATTERY CHARGING TECHNOLOGY**

#### **INTELLIGENT 6-STAGE BATTERY CHARGING**



#### **EQUALIZATION CHARGING**

- » High voltage shakes the battery electrolyte
- » Makes the electrolyte more efficient for charging
- $\ensuremath{\text{\textit{»}}}$  It is an automatic process and occurs only once in a month

#### **FLOAT MAINTENANCE STAGE**

- » Charging voltage is reduced to a level and held constant
  - » Maintains full charge level of the battery

#### **ABSORPTION CHARGING**

- » Battery charger detects that the charging has slowed down at about 80% of charge level
- » Charging current is fed slowly till the level reaches 100%  $\,$

#### **BULK CHARGING**

- » Gives predefined high voltage and battery current to the battery
- » Battery reaches about 80% of charge level

#### **SOFT START CHARGING**

- » Charges battery at low voltage and current
- » Waits till the battery gets charged by 10-15%

#### **DE SULPHATION CHARGING**

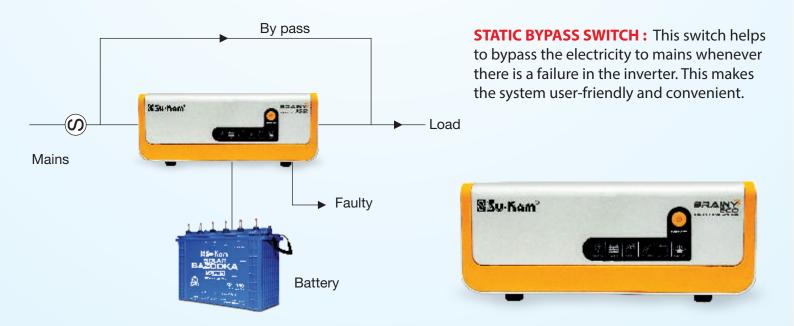
- » High voltage, low current helps micro pulses to detach the Sulphate crystal from the plates
  - » Battery produces optimum power

# POWERFULL ENOUGH TO RUN 7 COMPUTERS\*

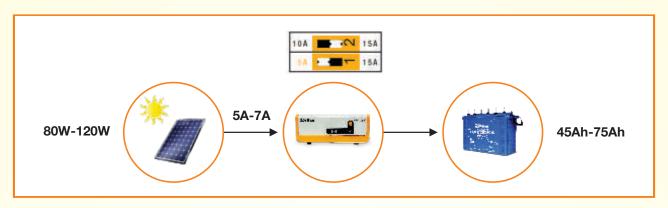


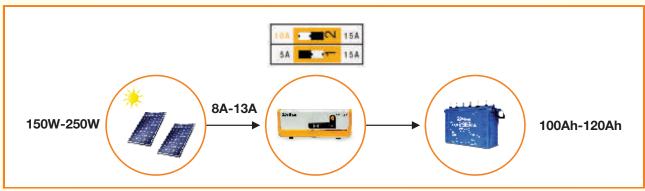
\*14 Inch TFT Monitor with Model 1100

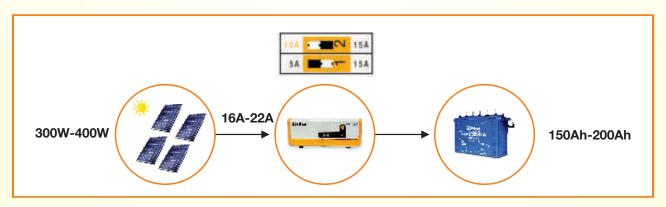
# ENJOY UNINTERRUPTED POWER SUPPLY EVEN WHEN UPS FAILS

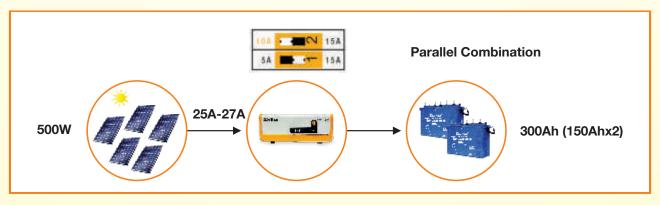


## FREEDOM TO CHOOSE BATTERY AND PANEL SIZE











#### **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





#### **LOAD CHART**

Model	Brainy Eco 1100 / 12V						
Options*				/			
	Computer	Printer	Television	Tubelight	Fan	Room Cooler	CFL
A	_	_	_	10	_	_	2
В	1	_	_	3	4	_	_
С	_	_	_	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 Power Systems Limited**

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