

INDIA'S-MOST-INTELLIGENT SOLAR HOME UPS



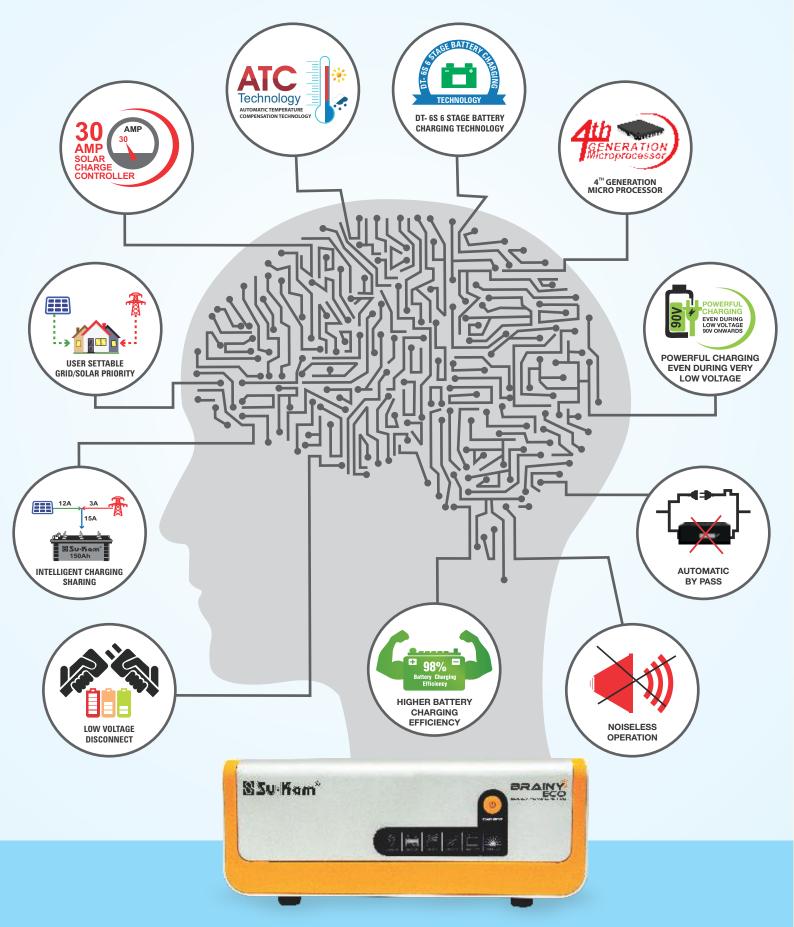
Patent protected Design Registration No. 25282 Copyright 2013-2015 Su-Kam Power Systems Ltd.



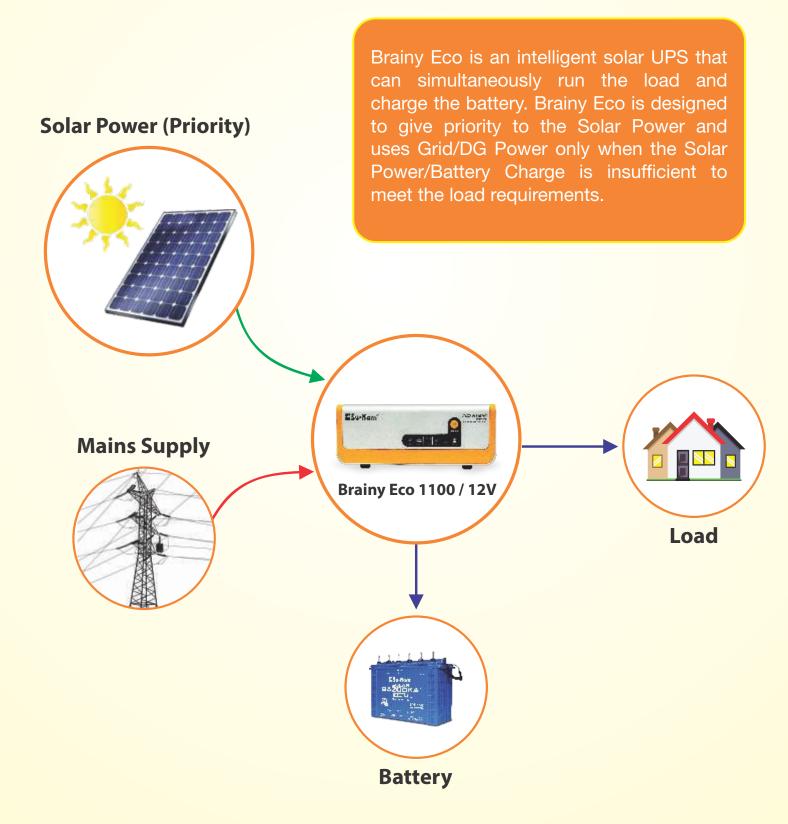
Solar Hybrid UPS

www.su-kam.com

INTELLIGENCE INTEGRATED



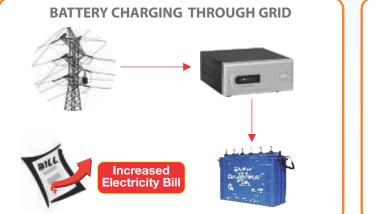
HOW BRAINY ECO WORKS

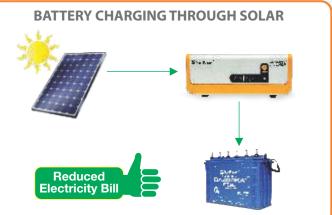


BIG SAVINGS ON ELECTRICITY BILL

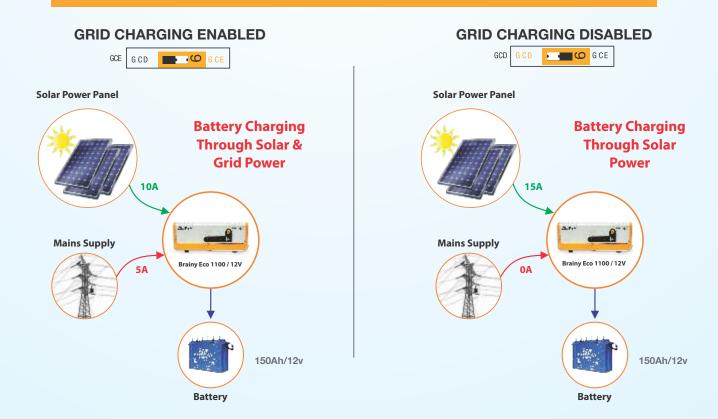
DID YOU KNOW?

CHARGING YOUR BATTERY THROUGH GRID POWER INCREASES YOUR ELECTRICITY BILL

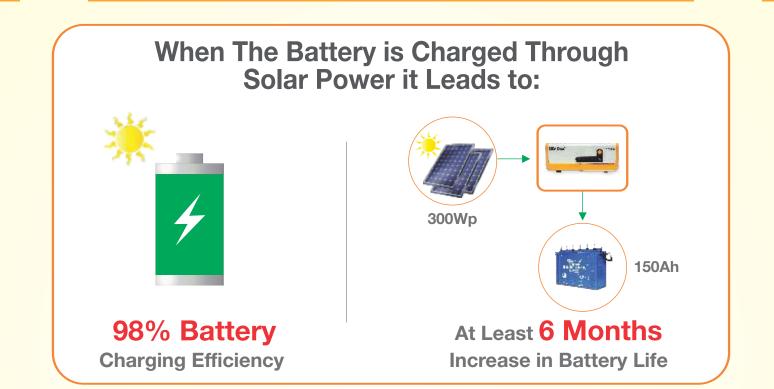




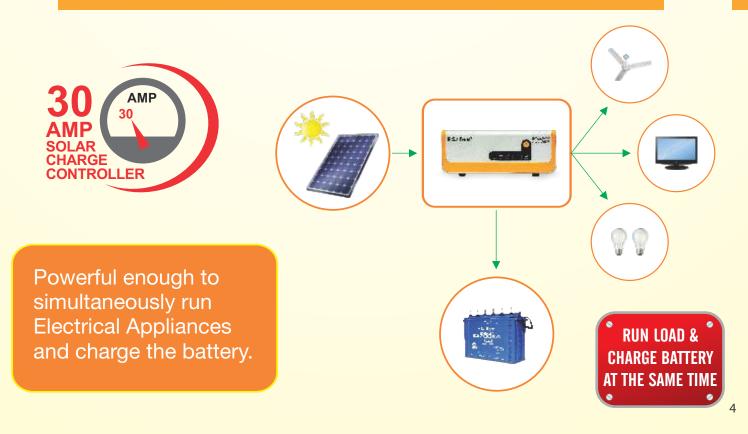
USER SETTABLE GRID CHARGING ENABLE/DISABLE SWITCH



LONGER BATTERY LIFE



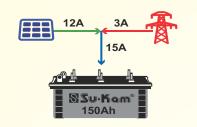
POWER BUILT-IN 30 AMP SOLAR CHARGING



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.

300Wp





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

POWERFUL CHARGING ON LOW VOLTAGE



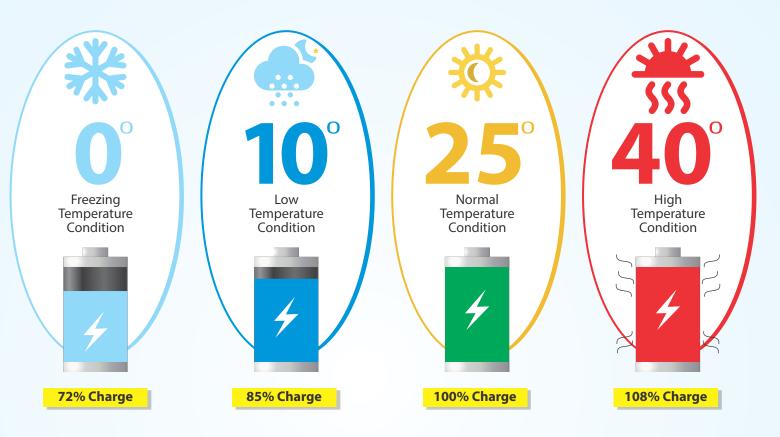
Charges even at 90V, thus ideal for areas which have low voltage problems.

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.



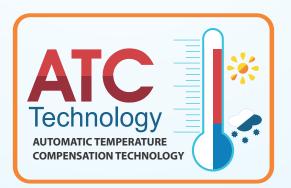
AUTOMATIC TEMPERATURE COMPENSATION



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.

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



CONTROLS OVER/UNDER CHARGING

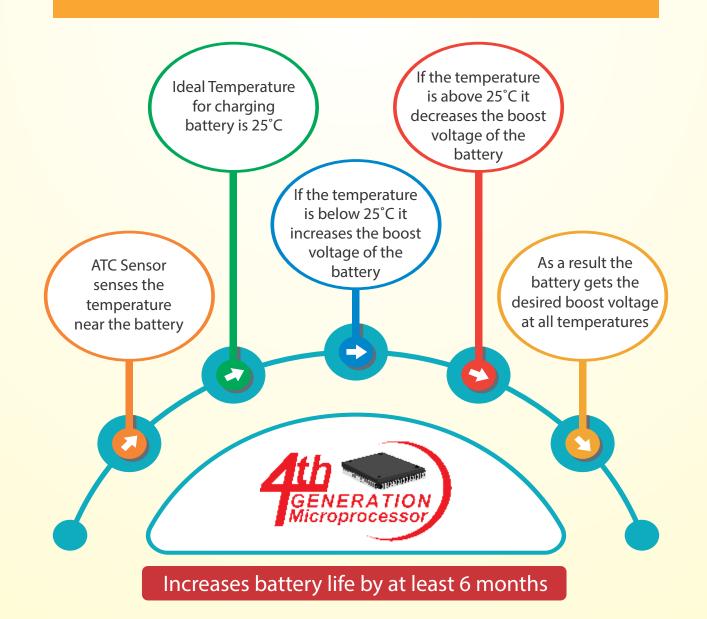
INCREASES BATTERY LIFE BY ATLEAST 6 MONTHS ATC Sensor is kept close to the battery bank that determines battery temperature and automatically adjust the target boost voltage.

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

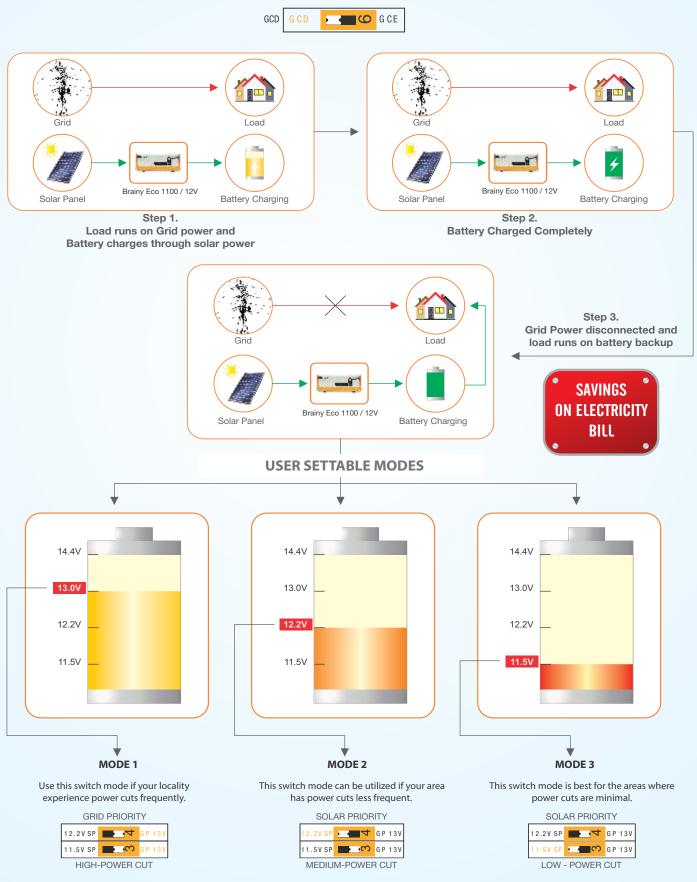


THE WORKING PROCESS



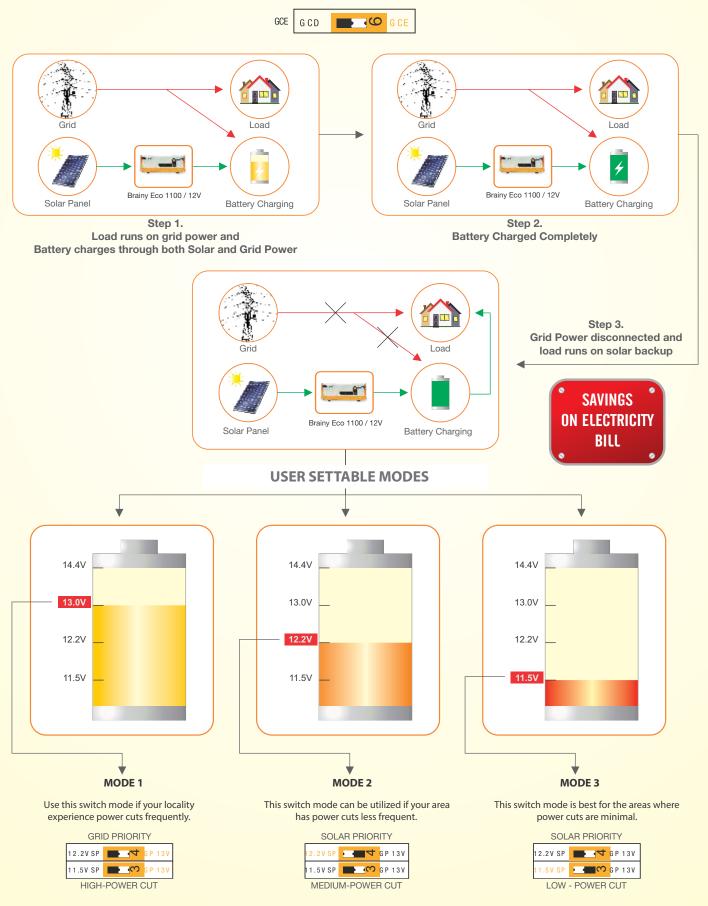
USER SETTABLE SOLAR/GRID PRIORITY

GRID CHARGING DISABLED

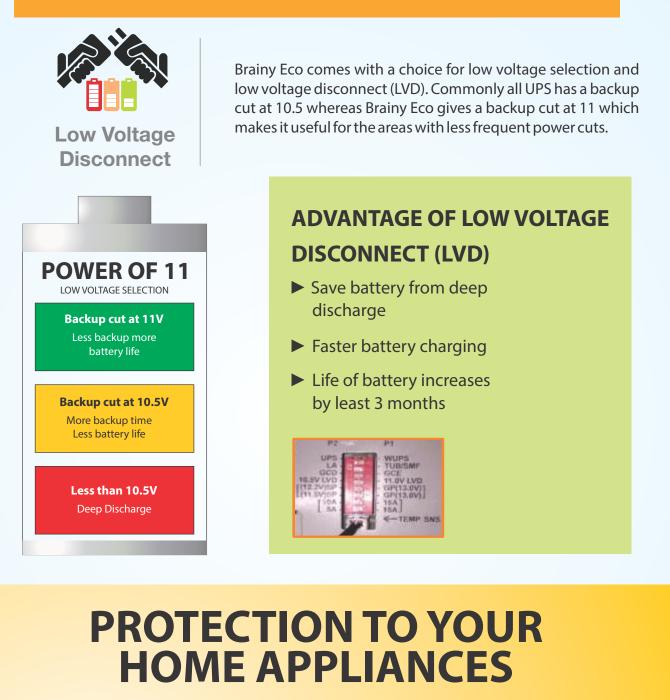


USER SETTABLE SOLAR/GRID PRIORITY

GRID CHARGING ENABLED



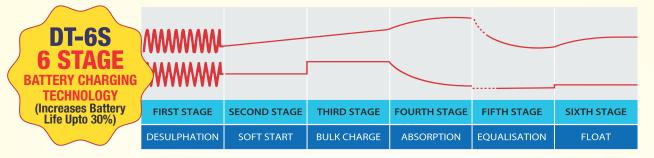
INCREASE YOUR BATTERY LIFE WITH LVD





DT-6S : 6 STAGE BATTERY CHARGING TECHNOLOGY

INTELLIGENT 6-STAGE BATTERY CHARGING





» High voltage shakes the battery electrolyte » Makes the electrolyte more efficient for charging » 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, Tested under ideal conditions for 7 computers.

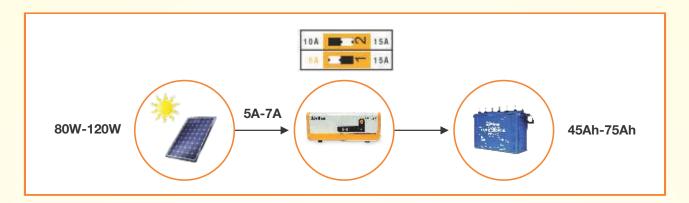
ENJOY UNINTERRUPTED POWER SUPPLY EVEN WHEN UPS FAILS

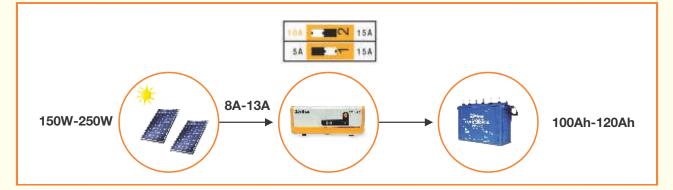


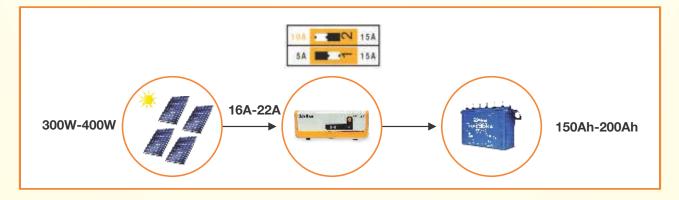
STATIC BYPASS SWITCH : This switch helps to bypass the electricity to mains whenever there is a failure in the inverter. This makes the system user-friendly and convenient.

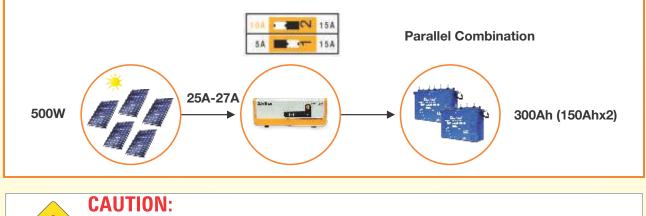


FREEDOM TO CHOOSE BATTERY AND PANEL SIZE





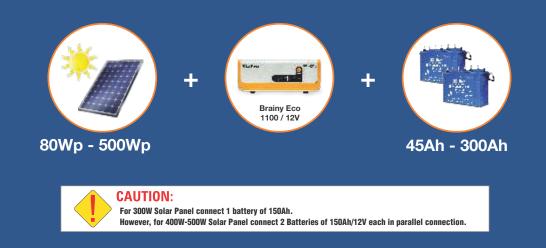




For 300W Solar Panel connect 1 battery of 150Ah. However, for 400W-500W Solar Panel connect 2 Batteries of 150Ah/12V each in parallel connection.

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	_	_
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.							



Office : 15 floor, The Pride Building, An Hung Urban, Hadong Dist, Hanoi City, Vietnam Tel: +84 (4) 6259 1211 Fax: +84 (4) 6664 2221 Email : info@sigmavn.vn • Website: www.sigmavn.vn