

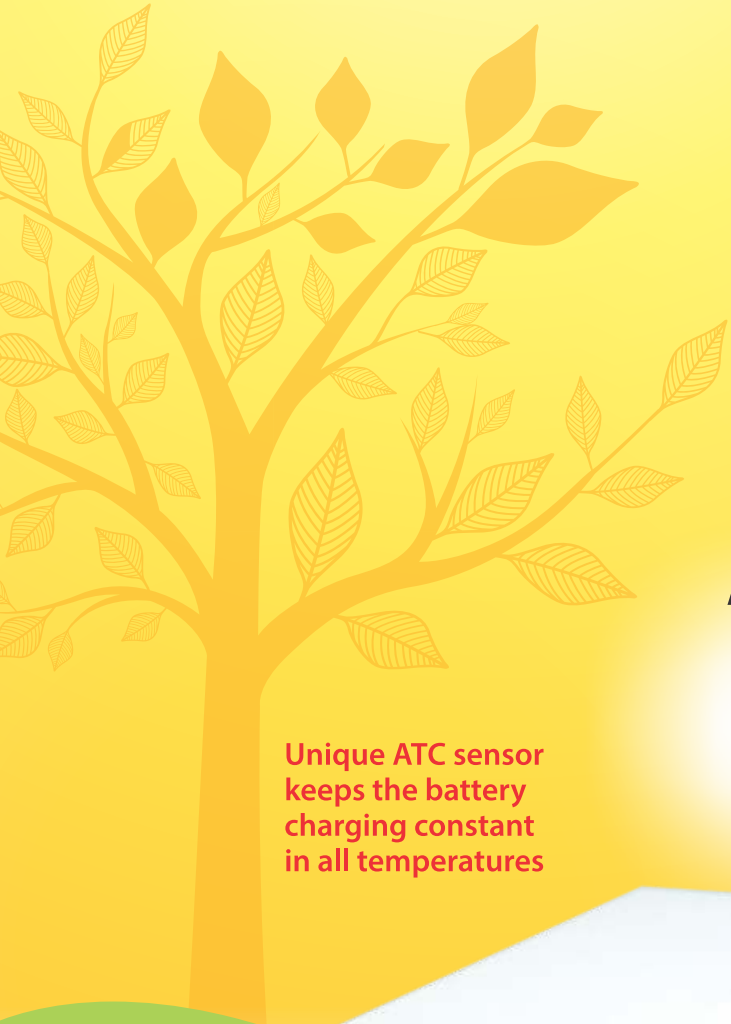


Su-Kam®

Falcon+

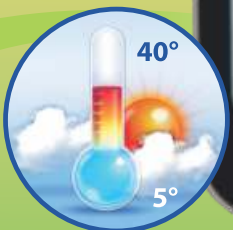
1100/1600 PURE SINE WAVE HOME UPS

Technology for all seasons



Unique ATC sensor
keeps the battery
charging constant
in all temperatures

ATC SENSOR



What is ATC ?

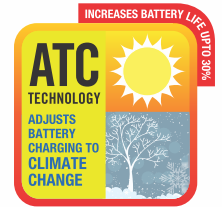
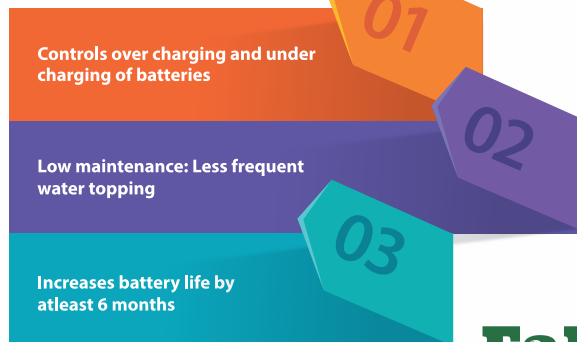
(Automatic Temperature Compensation Technology)

- > 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 voltage.
- > ATC Sensor it kept close to the battery bank that determines battery temperature and automatically adjusts the target charge voltages accordingly.
- > This automatic sensing controls over charging and

under charging thereby increasing battery life by 30% and providing excellent battery back-up.

- > Since charging efficiency is less than 100%, batteries typically warm up as they are charged. Fluctuations in outside temperature also causes battery temperature to change. ATC technology allows chargers to dynamically adjust target voltages during the charging process as battery temperature changes and ensures optimal charging.

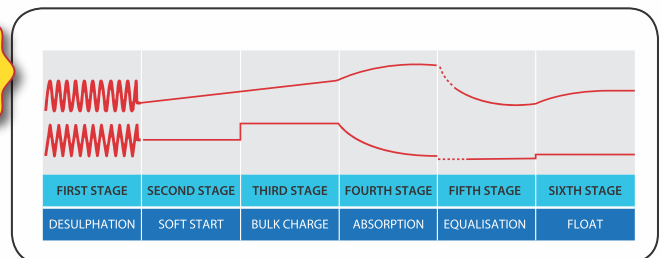
Benefits of ATC Technology



Falcon+
PURE SINE WAVE HOME UPS

Falcon+ is powered with DT-6S technology

DT-6S technology provides effective de-sulphation of battery ensuring 10% faster charging and battery life increment of at least 30% over existing technology.



Desulphation

- High voltage, low current helps micro pulses to detach the sulphate crystal from the plates of battery
- Battery Produces optimum Power Soft Start Charging
- Starts Charging battery at low voltage and low current.
- Waits till the battery gets charged Bulk Charging
- Gives high voltage and predefined current to the battery
- Battery reaches about 80% of charge level

Absorption Charging

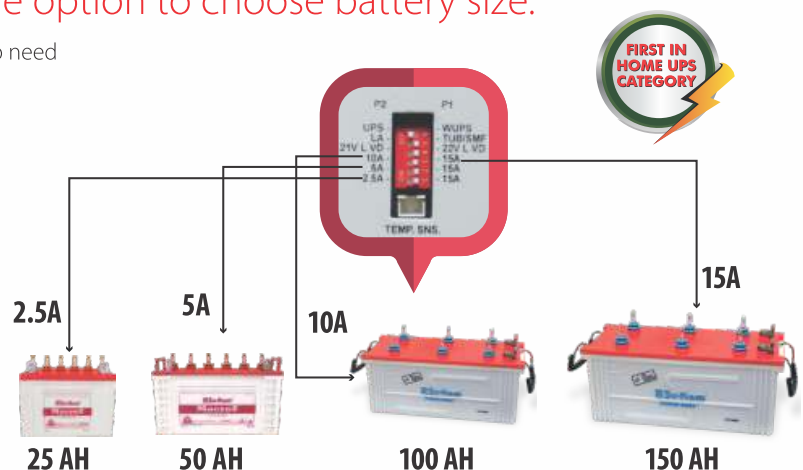
- Battery charger detects the charging till it slowed down at about 80% of charge level
- Then the charging current is fed slowly till the level reaches 100% Equalization Charging
- High Voltage Shakes the battery electrolyte and makes the electrolyte more efficient for charging Float Maintenance Stage
- Charging Voltage is reduced to a level and held Constant
- Maintains the full charge level of the battery

Benefits of DT-6S 6 Stage charger are :

- ✓ Optimum back up time from battery
- ✓ Fast and full charging, ultimately leading to get a longer battery life
- ✓ Does not require frequent water topping of battery hence reducing maintenance cost and efforts
- ✓ Controls the emission of harmful gases into the environment

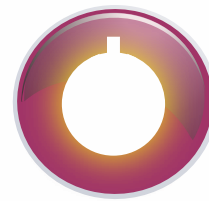
Back up selection switch gives you the option to choose battery size.

Choose any battery between 18-200AH according to your backup need

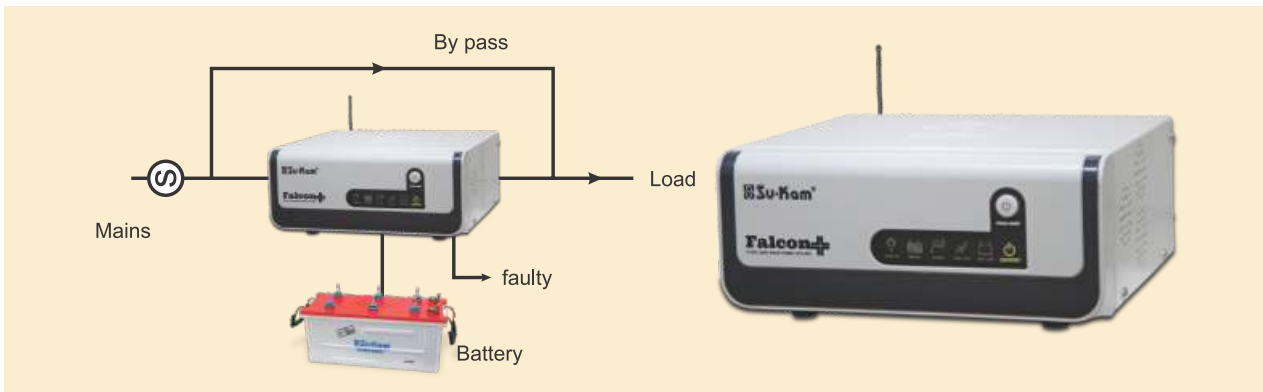


Enjoy uninterrupted supply of power even when UPS fails

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.



ABS ACTIVE



SOLAR COMPATIBILITY

Falcon+ can be used as a solar inverter by using our unique product SOLARCON. Solarcon is an intelligent converter that when attached to the existing inverter and battery along with solar panels can help the user to reap benefits from the power of sun.

SOLARCON



FALCON+ is compatible with generators

Wide window of frequency range between 42-65Hz makes falcon+ totally compatible with local generators



Patent Application No. 2336/Del/2010, 382/DEL/2010, 416/DEL/2013
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Design Registration No.: 253380, 271360

PRODUCT FEATURES

- Pure Sine Wave output runs all your appliances efficiently and noiselessly.
- Intelligent thermal management system.
- Solar Compatibility.
- Static by-pass.
- Electronic Protection updates.
- Battery reversal pole protection.
- High surge load handling capability.
- Inbuilt wrong wire connection protection.
- Smart overload and short circuit protection with 8 times auto retry.
- Reverse current flow protection.

Displays

- Multifunction Graphical LED display.
- Power Switch active indication.
- 5 LEDs display following states – operation mode, state of charge, fault message.

Operation

- Single operation master switch.
- Automatic cooling fan operation.
- Automatic circuit breaker recovery.

LOAD CHART, APPLICATIONS & BACK-UP TIME

Load Options	FALCON+ 750/12V			FALCON+ 900/12V		
	A	B	C	A	B	C
Computer	1	-	-	1	-	-
Television	-	-	1	-	-	1
Tube Lights	3	1	3	3	2	4
Fans	1	2	1	3	3	4
Room Cooler	-	1	-	-	1	-
CFL	-	-	-	1	1	1

Back-up time in hrs. (below back-up time is calculated on above load options A, B, C combination run independently)

135 AH	2.7 H	2.1 H
150 AH	3.0 H	2.4 H
200 AH	4.0 H	3.2 H

*Recommended battery 100AH200AH

Load Options	FALCON+ 1600/24V		
	A	B	C
Computer	1	-	-
Television	-	-	1
Tube Lights	7	6	8
Fans	7	6	8
Room Cooler	-	1	-
CFL	-	-	-

Back-up time in hrs. (below back-up time is calculated on above load options A, B, C combination run independently)

135 AH	2.1 H
150 AH	2.3 H
200 AH	3.1 H

*Recommended battery 100AH200AH

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



Approvals & Certifications

- Certified by ETDC & CE.
- Technology & Design Patent.
- Copyrights & Trademark.
- Manufactured according to ISO 9001 and ISO 14001.
- R&D approved by Govt. of Science & Technology.

Su-Kam®

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Falcon+
PURE SINE WAVE HOME UPS

RANGE OF INVERTERS

- Pure Sinewave Home UPS 1100
- Pure Sinewave Home UPS 1600


How to Install this Product?

Watch our step-by-step installation video for these products on our Youtube Channel. We have made many interesting videos to help you understand various features in our products.

 **SukamIndia**

Got Questions About this Product?

Please call our toll-free number **(1800 102 4423 - for India only)** or message us on our Facebook Page and we will answer all your questions.

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