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Display Messages



Current Scenario of Battery



The Su-Kam Solution

First time in India, Su-Kam introduces Home UPS with an intelligent ATC Technology (Automatic Temperature Compensation) that adjusts battery charging according to the ambient temperature to maximize battery performance.

The sensor automatically senses the temperature and takes control of over charging and under charging, thereby increasing battery life by at least six months and providing excellent battery back-up. ATC SENSOR ADJUSTS BATTERY CHARGING ACCORDING TO AMBIENT TEMPERATURE TO MAXIMIZE BATTERY PERFORMANCE

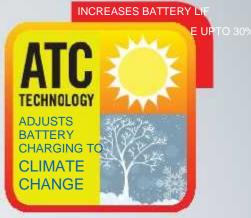


What is ATC ?

(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

Controls over charging and under charging of batteries

Low maintenance: Less frequent water topping

Increases battery life by atleast 6 months

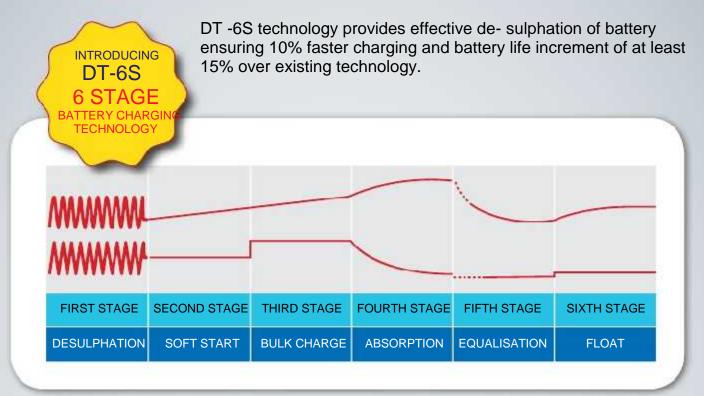


How does ATC work?

Falcon++ has highly advanced 4th generation micro processor which enables Automatic Temperature Compensation Technology.

Magical 4th Generation Micro Processor ATC Sensor senses the temperature near the battery If the temperature is below 25°C it increases the boost voltage of battery Increases battery life by at least 6 months If the temperature is above 25°C it decreases the boost voltage of battery Ideal Temp for **Charging Battery** 25°C As a Result the Battery gets the desired Boost Voltage at all -Temperatures Sumer.

Falcon++ is powered with DT-6S technology



De sulphation

- 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

Power Full Battery Charging with Input Voltage as Low as 90 V

Equipped with an SMPS charger, this intelligent system increases efficiency thereby allowing powerful charging even at a very low voltage of 90 V.

90 200 90 300 Charling Hills Hills 400 CHARGING 85 LOVE AS 90 V

Typically, the inverter batteries require minimum 130 volt for charging. Falcon + charges the battery with voltage as low as 90 volt.

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

Enjoy uninterrupted backup with less than 8 msec switch over time



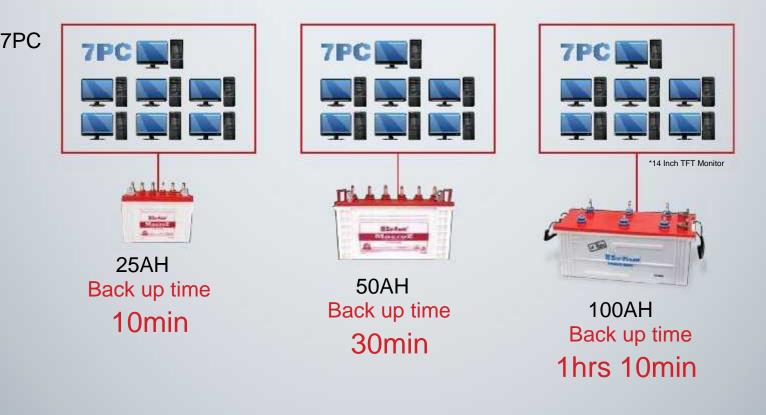


* Your IT equipments does not reboot



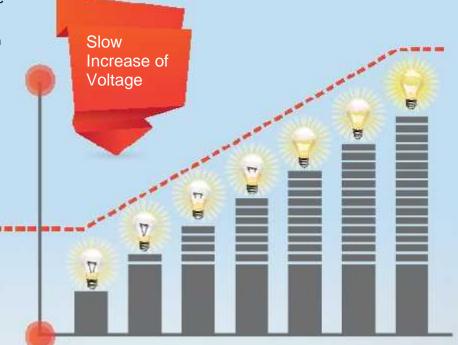
Small Battery + Backup options

Choose any battery according to your backup needs



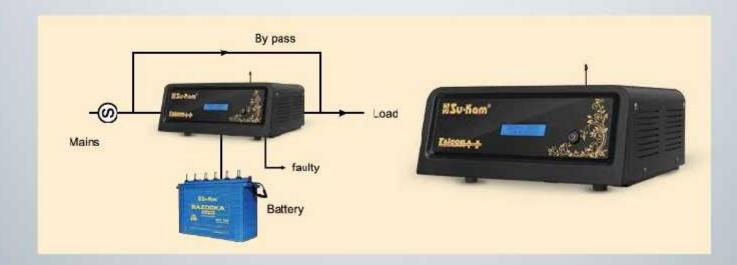
Soft Start Technology to safeguard your appliances

- Gradual increase of voltage
- This technology protects the appliance from sudden high voltage
- Hence life of the electrical appliance increases.



Enjoy uninterrupted supply of power even when UPS fails

Automatic 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.



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

1.1

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 Copyright © 2013-2014 Su-Kam Power Systems Limited. All rights reserved. Design Registration No. : 253380, 271360

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Falcon++ provides an extra layer of protection to your devices



Available in 1100/12V

LOW VOLTAGE SELECTION

Backup cut at 11V

Less backup more battery life

Backup cut at 10.5V

More back up time Less battery Life

Less than 10.5 V

Deep Discharge

Increase your battery life with LVD

Falcon++ comes with a choice for low voltage selection & low voltage disconnect (LVD). Commonly all UPS has a backup cut at 10.5 where as Falcon++ gives a backup cut at 11 which makes it useful for areas with less frequent power cuts.

Advantages of Low Voltage Disconnect (LVD)

- Saves battery from deep discharge
- Faster battery charging



Life of battery increases by 3months

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.

Reverse current flow protection.

- Inbuilt wrong wire connection
 protection.
 Smart overload and short circuit protection with 8 times auto retry.
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Displays

- Multifunction Graphical LCD display.
- Power Switch active indication.
- LCD for Backup time, Fault massage, Operation mode, Temperature compensation.

Operation

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

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.



Falcon++ 1100/12V			
Load Options	A	В	С
Computer		1	2
Television	-	-	- 1
Tube Lights	10	3	4
Fans	-	4	3
Room Cooler	-	-	1
CFL	2	-	· · · ·

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

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135 AH	1.8 H
150 AH	2.0 H
200 AH	2.7 H

*Recommended battery 100AH–200AH

Note: Indicative values only, actual calculation depends on manufacturer's 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.







RANGE OF INVERTERS

- Pure Sinewave Home UPS 1100

MSTECHNOLOGIES

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