

## Sinclair-i Series

IN-BUILT  
BATTERY

EXTERNAL  
BATTERY

RANGE AVAILABLE  
FROM  
1KVA TO 10KVA



### SALIENT FEATURES

- DSP based High frequency design using latest IGBT guarantees high reliability.
- Active power factor correction with input power factor >0.98.
- High efficiency in both Mains Mode & Battery Mode.
- Extra wide Input voltage Window.
- Noiseless operation.
- SMPS Based Charger.
- High-inrush current handling capacity.
- Multiple protection features to ensure load safety.
- User friendly LCD display.

When the load is not very critical or has got the capacity to handle same thing of its own, then we have got a separate Technology today. Most widely called as High Frequency UPS, but we call it "Triple Convention Online UPS".

This Series of UPS doesn't have Galvanic Transfer and this cost of product, warehousing, handling, transportation etc. everything becomes affordable and helps you reach to the masses. This series provides a safe and break free power for your devices with very high efficiency and built in batteries.

This Series is capable to provide you a power factor very near to unity at input & output also.

### MAIN APPLICATIONS OF ONLINE UPS

Workstations, Servers, Data Centres, Plotters, Monitors and Modems, EPABX systems, Fax Machines, Networking Products, Medical equipment, Printing & Media equipment, Point of sale, Video equipment, Sound equipment, Security equipment, Small Automation control equipment, sensitive electronic or any other computerized systems, access control system.



|                             |  |                |                     |                |                     |  |                      |                  |                      |                  |
|-----------------------------|--|----------------|---------------------|----------------|---------------------|--|----------------------|------------------|----------------------|------------------|
| Type                        | 1 Phase Input - 1 Phase Output   |                |                     |                |                     |  |                      |                  |                      |                  |
| Series                      | Sinclair-i   |                |                     |                |                     |  |                      |                  |                      |                  |
| Technology                  | High Frequency Online UPS  |                |                     |                |                     |  |                      |                  |                      |                  |
| MODEL                       | Sinclair-i   |                |                     |                |                     |  |                      |                  |                      |                  |
| Capacity                    | 1kVA   | 1kVAKS         | 2kVA                | 2kVAKS         | 3kVA                | 3kVAKS   | 6kVA                 | 6kVAKS           | 10kVA                | 10kVAKS          |
| <b>INPUT PARAMETERS</b>     |  |                |                     |                |                     |  |                      |                  |                      |                  |
| No. of Phases               | 1Phase-3Wire (P,N,E)   |                |                     |                |                     |  |                      |                  |                      |                  |
| Voltage Range               | 110- 300Volts $\pm$ 5Volt(Load dependant)  |                |                     |                |                     | 176 -276Volts $\pm$ 5Volt                          |                      |                  |                      |                  |
| Input Power Factor          | >0.97 at Full Load   |                |                     |                |                     | >0.98 at Full Load                                 |                      |                  |                      |                  |
| Input Frequency Range       | 46 to 54Hz.  |                |                     |                |                     |  |                      |                  |                      |                  |
| <b>OUTPUT PARAMETERS</b>    |  |                |                     |                |                     |  |                      |                  |                      |                  |
| Power                       | 700 W  | 1400 W         | 2100 W              | 4200 W         | 7000 W              |  |                      |                  |                      |                  |
| Load PF Range               | 0.65 lagging to 1.0  |                |                     |                |                     |  |                      |                  |                      |                  |
| Phase                       | 1 Phase -3 Wire (P,N,E)  |                |                     |                |                     |  |                      |                  |                      |                  |
| Output Waveform             | Pure Sine Wave   |                |                     |                |                     |  |                      |                  |                      |                  |
| Voltage                     | 220/230/240VAC +/- 2% (selectable)   |                |                     |                |                     |  |                      |                  |                      |                  |
| Frequency                   | Synchronization Range 46-54Hz, Slew Rate 1Hz/Sec, Battery Mode (50 $\pm$ 0.2) Hz |                |                     |                |                     |  |                      |                  |                      |                  |
| Load Crest Factor           | > 3:01   |                |                     |                |                     |  |                      |                  |                      |                  |
| Output Voltage THD          | <=3% on Resistive full load  |                |                     |                |                     |  |                      |                  |                      |                  |
| Loading Capacity            | 110% ~ 150%: for 0.5s , fault after 30s,   |                |                     |                |                     | 105% ~ 130%: Transfer to bypass after 10 min.      |                      |                  |                      |                  |
|                             | > 150%: fault after 300ms,   |                |                     |                |                     | >130%: Transfer to bypass after 1s, shutdown after |                      |                  |                      |                  |
|                             | auto recovery  |                |                     |                |                     | 1 min.(Line mode)                                  |                      |                  |                      |                  |
| <b>BY-PASS</b>              |  |                |                     |                |                     |  |                      |                  |                      |                  |
| Maintenance By-Pass         | Static By-Pass   |                |                     |                |                     |  |                      |                  |                      |                  |
| <b>BATTERIES</b>            |  |                |                     |                |                     |  |                      |                  |                      |                  |
| No of 12V Batteries         | 3  | 8              | 8                   | 20             | 20                  |  |                      |                  |                      |                  |
| Voltage                     | 36VDC  | 96VDC          | 96VDC               | 240VDC         | 240VDC              |  |                      |                  |                      |                  |
| Battery Backup Time         | >5 min.  | User Defined   | >9min.              | User Defined   | >5min.              | User Defined                                       | 8min.                | User Defined     | 5min.                | User Defined     |
| Recharge Time               | 5hr. charge to 90%   | (User Defined) | 5hr. charge to 90%  | (User Defined) | 5hr. charge to 90%  | (User Defined)                                     | 8hr. recharge to 90% | (User Defined)   | 8hr. recharge to 90% | (User Defined)   |
| Charging Current            | 1A   | (8 $\pm$ 1)A   | 1A                  | (8 $\pm$ 1)A   | 1A                  | (8 $\pm$ 1)A                                       | 2A                   | (4.2 $\pm$ 0.2)A | 2A                   | (4.2 $\pm$ 0.2)A |
| <b>GENERAL</b>              |  |                |                     |                |                     |  |                      |                  |                      |                  |
| Indication                  | LCD panel  |                |                     |                |                     |  |                      |                  |                      |                  |
| Alarm                       | Mains Failure, Battery Low, Over Load & Short Circuit                            |                |                     |                |                     |  |                      |                  |                      |                  |
| Protection                  | Short Circuit, Over Voltage & Under Voltage Protection                           |                |                     |                |                     |  |                      |                  |                      |                  |
| Cooling                     | Forced Air Cooling   |                |                     |                |                     |  |                      |                  |                      |                  |
| UPS Efficiency              | 85%  | 85%            | 85%                 | 88%            | 88%                 |  |                      |                  |                      |                  |
| Operating Temperature       | 0-45DegC   |                |                     |                |                     |  |                      |                  |                      |                  |
| Operating Humidity          | 95% Condensing   |                |                     |                |                     |  |                      |                  |                      |                  |
| Monitoring Software         | Additional Software available for remote monitoring                              |                |                     |                |                     |  |                      |                  |                      |                  |
| Accoustic Noise             | <=45db at 1 Metre  |                |                     |                |                     |  |                      |                  |                      |                  |
| UPS Weight (With Batteries) | 13.3kg   | 7kg            | 32kg                | 15kg           | 32.2kg              | 14.5kg   | 84kg                 | 35kg             | 93kg                 | 38kg             |
| Dimension (W x D x H)       | (145 x 220 x 400)mm  |                | (195 x 330 x 455)mm |                | (195 x 330 x 455)mm |  | (260 x 717 x 570)mm  |                  | (260 x 717 x 570)mm  |                  |

Certifications






For more details, Please contact:  
**Su-Kam Power Systems Limited**  
 Corporate Office: 54, Udyog Vihar Phase -VI, Sec- 37, Gurgaon(Haryana) India  
 Tel. : +91-124-4170500, 4030700 Fax: +91-124-4038700/1/2  
 E-mail: info@su-kam.com | sms: 'SUKAM05' to 57007  
 Website: www.su-kam.com  
 Helpline No.: 1800-102-4423 (Toll Free)