

SAFFRON<sup>TM</sup>  
ENGINEERING

# DELIVERING POWER

WHEN YOU NEED IT THE MOST



Battery | Ups | Solar | Servo Stabilizer | Lithium Battery

# WHO WE ARE ?

Dear Sir / Madam,

We would like to introduce ourselves as one of the Leading Power Solutions Provider with excellent Sales / Services & AMC Providers. SAFFRON ENGINEERING provides the following product expertise and services since 15+ years.

## **LIST OF PRODUCTS:-**

### **1. BATTERIES :-**

AUTOMOTIVE / SMF VRLA BATTERY / TUBULAR / GEL / INDUSTRIAL / TELECOM

2. ONLINE-OFFLINE UPS (1KVA-3000KVA)

3. SERVO STABILIZERS

4. INVERTERS

5. ELECTRIC PANEL

6. SOLAR SYSTEM

7. ELECTRICAL WORKS

8. TRANSFORMERS

9. HT/LT CONTROL PANEL INSTALLATION

10. BATTERY RACKS & INTERCONNECTING UNINYVIN CABLES LINKS

11. EARTHING SYSTEM MANINTANANCE FREE EARTHING SOLID ROAD

12. POLYCAB ,RR, VOLTAIC BRAND PVC CABLES PVC,CCTV,ROUND,FEXCIBLE,SPK,RJ6 ETC COPPER CABLES

## **WE ARE ALSO OEM MANUFACTURERS OF:-**

### **1. LITHIUM BATTERY (LFP / NMC) :-**

E-VECHILE / E-RICKSHAW / E-CYCLE / E-TOYS / E-WHEELCHAIR

INVERTER / HV / LV LI-ION - UPS BATTERIES / SOLAR / TELECOM / MEDICAL EQUIPMENT

### **2. BATTERIES :-**

AUTOMOTIVE / TUBULAR INVERTER / TWO WHEELER

### **3. SERVO STABILIZER**

Sir, with this range of products and solutions in addition to the various other brands we offer, plus the supporting infrastructure we have, we firmly believe that Saffron Engineering is well positioned and able to provide our customers with best Solutions that add value to their business.

We look forward to being able to discuss any requirements you may have, currently and in the future...

We will be glad to serve you with our Quality and Time Bound Services...

Warm Regards

**PARAS NAHAR**

**SAFFRON ENGINEERING**

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# OUR PRODUCT RANGE

**Ups | Battery |  
Inverter | Servo -  
Stabilizer**



**ONLINE UPS  
1KVA-3000KVA**

**SERVO  
STABILIZER**



**HT / LT  
CONTROL  
PANEL**

MOTORCYCLE  
AUTOMOTIVE  
INVERTER  
BATTERY



# RECHARGEABLE HEAVY DUTY SAFFRON BATTERY

SMF BATTERY



WE, "SAFFRON ENGINEERING" ARE ENGAGED IN MANUFACTURING & DISTRIBUTING VARIOUS BRAND'S FOR SALES/ SERVICES, AMC PROVIDERS



# SERVO STABILIZERS



## Product Range

- ✓ Servo Voltage Stabilizers
- ✓ Ultra Isolation Transformers
- ✓ Power Transformers

## SERVO CONTROL VOLTAGE STABILIZER...

### TECHNICAL SPECIFICATION :

1.	Input Voltage Range 3-phase	: 360-460-, 340-480, 300-500 v (Or as per customer specification)
2.	Input Voltage Range 1-phase	: 160-270, 180-280, 130-260 v
3.	Output Voltage Range 3-phase	: 415, 400, 380 v
4.	Output Voltage Range 1-phase	: 240, 230, 220 v
5.	System Construction	: Unbalanced Type
6.	Output Voltage Regulation	: +/- 1%
7.	Overload Capacity	: 120 %
8.	Correction Speed	: 35 v/sec, 70 v/sec, 110 v/sec (optional with D.C. motor)
9.	Wave Form Distortion	: Nil
10.	Output Wave Form	: True reproduction of input
11.	Cooling	: Natural air-cooled up to 125 kva
12.	Modes Of System	: Both auto or manual
13.	System Construction	: as per IS 9815-1994



### APPLICATION :

- ▶ CNC Machine
- ▶ Biomedical Equipments
- ▶ Textile Machinery
- ▶ Pharmaceutical Machinery

### PROTECTION :

- ▶ Output under voltage
- ▶ Output over voltage
- ▶ Single phasing preventer
- ▶ Reverse phasing preventer
- ▶ Overload & Short Circuit protection through MCB/MCCB

### PANEL INDICATION :

- ▶ Digital Volt Meter For Input & Output Voltage Indication
- ▶ Digital Ammeter
- ▶ Frequency Meter
- ▶ Output Low Trip Indication For Individual Phases
- ▶ Output High Trip Indication For Individual Phases
- ▶ Input Low Indication For Individual Phase. Input High Indication For

### DIMENSIONS : (for Air Cooled Stabilizer)

Sr. No.	Capacity	W	D	H
1	5 KVA	660	350	400
2	10 KVA	660	400	680
3	15 KVA	660	400	680
4	20 KVA	660	400	680
5	25 KVA	650	520	715
6	30 KVA	850	520	770
7	35 KVA	850	520	770
8	40 KVA	850	520	770
9	50 KVA	850	520	770
10	60 KVA	1000	600	800
11	75 KVA	1000	600	800
12	80 KVA	1000	600	800
13	90 KVA	1000	600	800
14	100 KVA	1000	600	800

(All dimensions are in mm)

**Above 100 KVA Dimensions will be provided on request**

# SERVO CONTROL VOLTAGE STABILIZER...

## SALIENT FEATURES

### SWITCHES

**BY-PASS SWITCH** : This switch enable to by-pass the servo stabilizer in case of the failure of the servo stabilizer. The equipment connected through the stabilizer will get the supply form mains directly once the stabilizer is by-passed. (Optional)

**Volt-Selector Switch** : Voltage selector switch for I/P or O/P selection for indication on digital display.

**Stabilizer on Switch** : Stabilizer on push button switch for easy start of stabilizer output.

### DIMMERS

Vertical Type Dimmers for smooth operation and faster correction, These dimmers are of low maintenance due to its vertical design as Carbon and Dust deposition on dimmer surface is very less compared to horizontal dimmers. Also available in **Roller Carbons** up to 25 kva 3-ph. rating.

### PROTECTION

- ▶ Over Voltage Protection
- ▶ Under Voltage Protection
- ▶ Single Phasing Preventer
- ▶ Phase Reversal Preventer
- ▶ Short Circuit Protection

### CONTROL SYSTEM

Plug in type Micro processor based control card for high reliability, accuracy & easy maintenance.

### MS ENCLOSURE

Spacious pipe structure design duly powder coated for easy maintenance with wheels for smooth movement.

### DISPLAY & INDICATION

**VIF Indicator** : This digital display gives the information of voltage, current and frequency of the all phase for both input and output.

**Trip Indication** : Trip indication for individual phases for both undervoltage and overvoltage condition.

**InLow or InHigh Voltage** : Mains incoming indicator Neon lamp for all phase.

**Main Indicator** : Incoming mains supply indicator.



## SERVO CONTROL VOLTAGE STABILIZER...

Saffron Engineering corporation is one of the leading manufacturer of servo controlled voltage stabilizers for more than 15 years. This equipment is used to obtain a steady three phase AC supply within very close tolerances to a fluctuating mains. This equipment finds application in Dairy industry, Chemical, Process Industry, Research Establishment and Hospitality industry etc. We have over 800+ installations in just last 7 years have become one of the preferred suppliers to dairy industries, gear manufacturing industries.



### BENEFITS OF "SAFFRON" MAKE SERVO STABILIZERS :

- ✔ **REDUCTION IN BREAKDOWN OF ELECTRICAL EQUIPMENTS** : UP TO 70% depending upon the input voltage variation and working hours of the plant which will result in zero breakdown and better utilization of manpower & equipments.
- ✔ **ENERGY SAVING** : 5-25 % depending upon the input voltage variation and working hours of the plant.
- ✔ **GUARANTEE** : Our Servo stabilizers are warranted for 1 year unconditionally after installations at site. We have wide spread service network in most of the states in India and we provide services at site our clients for any complaints.
- ✔ **REDUCTION IN MDI** : There will be definite reduction in MDI by 10-15% after the power factor by 10-15% after the installation of the equipment.
- ✔ **IMPROVEMENT IN POWER FACTOR** : Improvement in the power factor by 10-15% can be achieved as the output supply will be stable.
- ✔ **EFFICIENCY** : "SAFFRON" make Servo controlled voltage stabilizers are 98.5% efficient compared to other conventional Servo stabilizers.
- ✔ **LOAD** : "SAFFRON" make Servo controlled voltage stabilizers are manufactured for unbalanced load or Balanced load as per customer requirements.



## **SAFFRON MAKE STABILIZER & DGVCL SOLUTION**

Leading Power Solutions Provider with excellent Sales and Service. SAFFRON ENGINEERING provides the following products and services. & deliver the electrical infrastructure for factories and industrial plants. ...

### **Electrical Services :**

- ✓ Design, Engineering, Installation, & Commissioning of Electrical Network.
- ✓ Electrical distribution network.
- ✓ HT PANEL
- ✓ Draw out / Fixed Type PCC, PMCC, MCC, Intelligent MCC PANEL
- ✓ LV APFC (Contactor based & Thyristor Base ) Panel
- ✓ Auto DG Synchronizing Panel
- ✓ AC/DC Drive / Soft Starter/PLC/SCADA/Instrumentation Panel



## OUR EXPERTISE IN ELECTRICAL SECTOR

We would like to introduce ourselves as one of the **Leading Power Solutions Provider** with excellent Sales / Services & AMC Providers. **SAFFRON ENGINEERING** provides the following products and services for 15+ years.

### Electrical Services – H.T Slide

- ✓ High Tension Line Work up to 11/22kv.
- ✓ Overhead/Underground Independent feeder line.
- ✓ Power Transformer/V.C.B/H.T Panel/Metering Panels.
- ✓ H.T Cable Joints with Heat Shrinkable Cable Jointing Kits.
- ✓ H-Pole with P.C.C Poles or Steel Tubular Poles.
- ✓ G.O. Switch & D.O. Fuses/C.T & P.T.
- ✓ H.T XLPE Cable/A.C.S.R/Aerial Bundled Cable (A.B.C)
- ✓ Chemical/Plate Earthing.
- ✓ GI/Copper Strip & Wire.
- ✓ Laisioning Work as per SEB rules & regulations.



**Schneider**  
Electric

**ABB** **SIEMENS**

 **LARSEN & TOUBRO**

## ABOUT US

Established in the year 2004, SAFFRON ENGINEERING is widely considered among the best in the industry for providing; POWER BACKUP solutions & services are engaged in offering high end Solutions services. We pride ourselves in providing the services in the most efficient manner & also for the timely execution & customization installation.

Our extensive experience & dedicated workforce allow us to successfully cater the emerging POWER solution's demands of valued customers engaged in diverse industries. The team makes use of advanced technology & tools for planning & designing highly effective and reliable solutions. Further our professionals also checks the quality of services to ensure that the adhere to industry standards.

## UPS EXPERTISE

With our immense experience in this domain, we have been able to successfully cater the requirements of our huge client base. Our wide spectrum of BACK UP Solutions for INDUSTRIES, UPS systems, BACKUP solutions, SERVO STABILIZER & Maintenance services is performed by a team of expert professionals, which has vast experience in this sphere of business. Empowered with advanced technology & facilities, we have been able to accomplish our assigned task within stipulated time frame. Our expertise in this domain enables us to cater the demands of clients engaged in SMB's as well as large enterprises.

## OUR MISSION

Our mission will always be to serve you best & always our commitment by providing you with our "Excellent Technology, Excellent products & excellent services". In the existing business scenario where Indian companies are trying to become more aggressive, it is important to get rid of the continuous power cuts & worries. Thus, we help you in achieving the goals & our mission will always be to Enable Customers to'.

- Reduce Time Wastages
- Reduce Cost
- Improve their Quality of Service & Products
- Rely on us as partners in development.

## RESEARCH & DEVELOPMENT

We are Manufacturing Tubular, Automotive & Two Wheeler. We have established quality control lab to check the quality of incoming raw materials as well as finished product. Our R & D is a manifestation of our belief in quality & innovation. It views R & D capabilities as a component of its business strategy that will provide the company with a sustainable, long-term competitive advantage. The company today has a good pool of employees who are engaged in path-breaking research. Our Team Works on bringing world technologies to the consumer at the least cost.



## MOTORCYCLE RANGE

Application	Capacity	Model No.	Warranty*	Dimension**		
				Length	Width	Height
MOTORBIKES SCOOTERS UPS	4 AH	SE 4	24 +24* MONTHS	113	70	87
	5 AH	SE 5	24 +24* MONTHS	120	60	130
	7 AH	SE 7	24 +24* MONTHS	150	60	130
	9 AH	SE 9	24 +24* MONTHS	139	75	137

## AUTOMOTIVE RANGE

Application	Capacity	Model No.	Warranty*	Dimension**		
				Length	Width	Height
CAR	35 AH	SE 35L/R	18 +18* MONTHS	190	130	240
	45 AH	SE 45L	18 +18* MONTHS	240	130	228
	65 AH	SE 70L/R	18 +18* MONTHS	260	170	215
LCV / PASSENGER VEHICLES	75 AH	SE 80	18 +18* MONTHS	300	175	240
	90 AH	SE 90	18 +18* MONTHS	410	175	250
TRACTOR	100 AH	SE 100	18 +18* MONTHS	410	175	250
	120 AH	SE 120	18 +18* MONTHS	520	180	240
TRUCK / SPECIALS VEHICLES	135 AH	SE 135	18 +18* MONTHS	520	180	240
	135 AH	SE 135 (BIG)	18 +18* MONTHS	510	210	240
	150 AH	SE 150	18 +18* MONTHS	510	210	240
GENERATOR SETS	150 AH	SS 150	12 + 6* MONTHS	510	210	240
	180 AH	SS 180	12 + 6* MONTHS	520	210	250

## INVERTERS RANGE

Application	Capacity	Model No.	Warranty*	Dimension**		
				Length	Width	Height
INVERTERS	100 AH	STT1000	36 +36* MONTHS	500	190	410
	120 AH	STT1200	36 +36* MONTHS	500	190	410
	150 AH	STT 1500	36 +36* MONTHS	500	190	410
	180 AH	STT 1800	36 +36* MONTHS	500	190	410
	210 AH	STT 2100	36 +36* MONTHS	500	190	410

\*Terms and conditions apply (36+12)

\*\*We reserve the rights to change Models and dimensions for improvement.



# GENERATE POWER FROM SOLAR ENERGY

Solar Lithium Battery

## Solar Inverter Lithium Battery Compatible with any inverter

Battery Voltage 12V - 96Volt  
Battery Capacity 78Ah - 200Ah



To main Family Load

# POWERING ELECTRIC MOBILITY

## EV BATTERIES & SOLUTIONS

### LITHIUM ION BATTERIES



E-bike  
Lithium Ion  
Battery



E-rickshaw  
Lithium Ion  
Battery



E-auto  
Lithium Ion  
Battery



Golf Cart  
Lithium Ion  
Battery



E-cycle  
Lithium Ion  
Battery

# BATTERIES FOR ELECTRIC VEHICLE

EV Charging



### LEAD ACID BATTERIES



E-bike  
Lead Acid  
Battery



E-rickshaw  
Lead Acid  
Battery



Golf-cart  
Lead Acid  
Battery



All Utility  
Charger

## LITHIUM BATTERY

# OUR PRESTIGIOUS CLIENTS





**CORPORATE HOUSE :**

PLOT NO.1, ASHIRWAD IND. SOCIETY - 2,  
OPP.BHARAT PETROL PUMP, NR. MAMTA HOSPITAL,  
120 FEET BAMROLI ROAD,  
SURAT - 395002, GUJARAT.

**WAREHOUSES :**

DELHI | MUMBAI | KOLLAM (KERALA)  
RAJSTHAN (UDAIPUR) | SURAT

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