

# SAIRUSH ELECTRONICS SYSTEMS

**Since 1995** 

An ISO 9001:2008 Co.

**CE Certified Products** 





SWITCH MODE POWER SUPPLIES

SMPS BASED BATTERY CHARGER

DC - DC CONVERTERS



**NOISE FILTERS** 



**DUAL DC POWER SUPPLIES** 

MULTI OUTPUT DC POWER SUPPLIES

TRANSFORMERS

**ULTRA ISOLATION TRANSFORMERS** 







Total D.C. Power Supply Solutions....

## SAIRUSH ELECTRONICS SYSTEMS

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We reserve the right to alter the product specifications or shapes without any notice in advance, in order to improve the performance, reliability or usability.

We are prepared to change to any other input voltage values than described in the catalogue at your request . in such case, please confirm in advance the price, size, weight, delivery time etc.



### **SERIES SVL**

### CONTINUOUSLY VARIABLE (CV/CL) POWER SUPPLIES

### **FEATURES:**

- Output Voltage Adjustable from 0 to Specified Voltage.
- Current Limit Adjustable from 5% to 110% of Specified Load Current.
- Load & Line Regulation: ±0.05% max.
- Ripple & Noise: 1mV (r. m. s.) max.
- Protected against Overload & Short circuit by
- Means of Automatic Crossover Characteristics.
- Continuous Metering of Output Voltage & Current.
- Input Voltage: 230V AC ±10%, 50Hz, Single Phase.
- Operating Temperature Range: 0 to 50° C.
- Remote Sensing for Distantly Situated Loads for Models above 5 Amps.



- Over Voltage Protection (Fixed / Variable).
- Input Voltage: 115V AC +10%.
- Rack Mounting, Wall Mounting, Base mounting.
- TTL Compatible Active ON/OFF.





MODEL	DESCRIPTION	MODEL	DESCRIPTION
SVL 015002	0-15V/2A	SVL 060001	0-60V/1A
SVL 015004	0-15V/4A	SVL 060002	0-60V/2A
SVL 015006	0-15V/6A	SVL 060003	0-60V/3A
SVL 015008	0-15V/8A	SVL 060005	0-60V/5A
SVL 015010	0-15V/10A	SVL 060010	0-0V/10A
SVL 015020	0-15V/20A	SVL 060015	0-60V/15A
SVL 015030	0-15V/30A	SVL 060020	0-60V/20A
SVL 032001	0-32V/1A	SVL 060030	0-60V/ 30A
SVL 032002	0-32V/2A	SVL 100001	0-100V/1A
SVL 032003	0-32V/3A	SVL 100002	0-100V/2A
SVL 032005	0-32V/5A	SVL 100003	0-100V/3A
SVL 032010	0-32V/10A	SVL 100005	0-100V/5A
SVL 032015	0-32V/15A	SVL 100010	0-100V/10A
SVL 032020	0-32V/20A	SVL 100015	0-100V/15A
SVL 032030	0-32V/30A	SVL 100020	0-100V/20A

### **SERIES SVL - D**

### CONTINUOUSLY VARIABLE (CV-CL) DUAL OUTPUT POWER SUPPLIES

#### **FEATURES:**

- Output Voltage Adjustable from 0 to Specified Voltage.
- Current Limit Adjustable from 5% to 110% of Specified Load Current.
- Two Completely Isolated Outputs can be configured in Series or Parallel to enhance Voltage or Current Output Capacity respectively.
- Load & Line Regulation: ±0.05% max.
- Ripple & Noise: 1mV (r. m. s.) max.
- Protected against Overload & Short circuit by Means of Automatic Crossover Characteristics.
- Continuous Metering of Output Voltage & Current.
- Input Voltage: 230V AC +10%, 50Hz, Single Phase.
- Operating Temperature Range: 0 to 50° C.
- Remote Sensing for Distantly Situated Loads for Models above 5 Amps.

#### **OPTIONAL FEATURES:**

- Over Voltage Protection (Fixed / Variable).
- Input Voltage: 115V AC +10%.
- Rack Mounting, Wall Mounting, Base Mounting.
- TTL Compatible Active ON/OFF.

MODEL	DESCRIPTION
SVL 032001D	0-32V/1A Dual O/P
SVL 032002D	0-32V/2A Dual O/P
SVL 032003D	0-32V/3A Dual O/P
SVL 032005D	0-32V/5A Dual O/P
SVL 032010D	0-32V/10A Dual O/P
SVL 064001D	0-64V/1A Dual O/P
SVL 064002D	0-64V/2A Dual O/P
SVL 064003D	0-64V/3A Dual O/P
SVL 064005D	0-64V/5A Dual O/P
SVL 064010D	0-64V/10A Dual O/P





### **SERIES SVP**

### 'PRECISE' VARIABLE (CV/CC) POWER SUPPLIES

#### FEATURES :

- Output voltage Adjustable from 0 to Specified voltage.
- Current limit Adjustable from 5% to 110% of specified Load Current.
- Regulation
- Voltage (CV): (Load & Line): ±0.01% max.
   Current (CC): (Load & Line): ±0.05% max.
- Ripple: CV: 1mV (r.m.s.)max., CC: 0.03% Amp (r.m.s.) max.
- Protected against Overload & Short circuit by Means of Automatic Crossover Characteristics.
- Externally Programmable Output Voltage.
- · Remote Sensing for Distantly Situated Loads.
- Continuous Metering of Output Voltage & Current.
- Input Voltage: 230V AC ±10%, 50Hz, Single Phase.
- Operating TemperatureRange: 0 to 50° C.

### **OPTIONAL FEATURES:**

- Over Voltage Protection (Fixed / Variable).
- Input voltage: 115 V AC +10%.
- · Rack Mounting, Wall Mounting, Base mounting.
- TTL Compatible Active ON/OFF.





MODEL	DESCRIPTION	MODEL	DESCRIPTION
SVP 015002	0-15V/2A	SVP 064001	0-64V/1A
SVP 015004	0-15V/4A	SVP 064002	0-64V/2A
SVP 015006	0-15V/6A	SVP 064003	0-64V/3A
SVP 015008	0-15V/8A	SVP 064005	0-64V/5A
SVP 015010	0-15V/10A	SVP 064010	0-64V/10A
SVP 015020	0-15V/20A	SVP 064015	0-64V/15A
SVP 015030	0-15V/30A	SVP 064020	0-64V/20A
SVP 032001	0-32V/1A	SVP 064030	0-64V/ 30A
SVP 032002	0-32V/2A	SVP 100001	0-100V/1A
SVP 032003	0-32V/3A	SVP 100002	0-100V/2A
SVP 032005	0-32V/5A	SVP 100003	0-100V/3A
SVP 032010	0-32V/10A	SVP 100005	0-100V/5A
SVP 032015	0-32V/15A	SVP 100010	0-100V/10A
SVP 032020	0-32V/20A	SVP 100015	0-100V/15A
SVP 032030	0-32V/30A	SVP 100020	0-100V/20A

### **SERIES SVP-D**

### 'PRECISE' SERIES (CV/CC) DUAL OUTPUT POWER SUPPLIES

#### FEATURES :

- Output Voltage Adjustable from 0 to Specified Voltage.
- Current Limit Adjustable from 5% to 110% of Specified Load Current.
- Two Completely Isolated Outputs can be configured in series or parallel to Enhance Voltage or Current Output Capacity respectively.
- Regulation
- Voltage (CV): (Load & Line): +0.01% max.
- ◆ Current (CC): (Load & Line): ±0.05% max.
- Ripple: CV: 1mV (r.m.s.) max., CC: 0.03% Amp (r.m.s.) max.
- Protected against Overload & Short circuit by Means of Automatic Crossover Characteristics.
- Externally Programmable Output Voltage.
- Remote Sensing for Distantly Situated Loads.
- Continuous Metering of Output Voltage & Current.
- Input Voltage: 230V AC +10%, 50Hz, Single Phase.
- Operating Temperature Range: 0 to 50° C.



- Over Voltage Protection (Fixed / Variable).
- Input Voltage: 115V AC +10%.
- Rack Mounting, Wall Mounting, Base mounting.
- TTL Compatible Active ON/OFF.



MODEL	DESCRIPTION
SVP 032001D	0-32V/1A Dual O/P
SVP 032002D	0-32V/2A Dual O/P
SVP 032003D	0-32V/3A Dual O/P
SVP 032005D	0-32V/5A Dual O/P
SVP 032010D	0-32V/10A Dual O/P
SVP 064001D	0-64V/1A Dual O/P
SVP 064002D	0-64V/2A Dual O/P
SVP 064003D	0-64V/3A Dual O/P
SVP 064005D	0-64V/5A Dual O/P
SVP 064010D	0-64V/10A Dual O/P

### **SERIES SFL T**

### POWER SUPPLIES FOR LINEAR IC CIRCUITS (DUAL TRACKING)

#### **FEATURES:**

- Fixed Output Voltage (Adustable Over ±10% of Nominal Output Voltage).
- Preset Positive & Negative Outputs Employing Master / Slave Technique.
- Tracking Accuracy: ±1%.
- Load & Line Regulation: ±0.1%.
- Ripple & Noise: 1mV (r. m. s.) max.
- Protected Against Overload & Short Circuit by Means of Fold back Circuitry.
- Input Voltage: 230V AC ±10%, 50Hz, Single Phase.
- Operating Temperature : 0 to 50°C.

#### **OPTIONAL FEATURES:**

- Metering of Output Voltage & / or Current.
- Over Voltage protection
- Input Voltage: 115V AC ±10%.
- Rack Mounting, Wall Mounting, Base Mounting.
- TTL Compatible Active ON /OFF.

MODEL	DESCRIPTION
SFL 012002T	±12V/2A
SFL 012004T	±12V/4A
SFL 012006T	±12V/6A
SFL 012008T	±12V/8A
SFL 012010T	±12V/10A
SFL 012015T	±12V/15A
SFL 012020T	±12V/20A
SFL 015002T	±15V/2A
SFL 015004T	±15V/4A
SFL 015006T	±15V/6A
SFL 015008T	±15V/8A
SFL 015010T	±15V/10A
SFL 015015T	±15V/15A
SFL 015020T	±15V/20A





### **SERIES SFL**

### **FIXED OUTPUT POWER SUPPLIES**

### **FEATURES:**

- Fixed DC Voltage Output (Adjustable Over ±10% of Nominal).
- Factory Set or Adjustable Current Limit.
- Load & Line Regulation: ±0.05%.
- Ripple & Noise: 1mV (r. m. s.) max.
- Protected Against Overload & Short Circuit by Means of Fold back Circuitry.
- Crowbar Type Over Voltage Protection at Output (only for 5V).
- Remote Sensing for Distantly Situated Loads for Model above 5 Amp.
- Input Voltage: 230V AC ±10%, 50Hz, Single Phase.
- Operating Temperature : 0 to 50°C.

#### **OPTIONAL FEATURES:**

- Metering of Output Voltage & /or Current.
- Input Voltage: 115V AC ±10%.
- Over Voltage Protection.
- Rack Mounting, Wall Mounting, Base Mounting.
- TTL Compatible Active ON /OFF.



MODEL	DESCRIPTION	MODEL	DESCRIPTION
SFL 005002	5V/2A	SFL 024015	24V/15A
SFL 005004	5V/4A	SFL 024020	24V/20A
SFL 005006	5V/6A	SFL 024030	24V/30A
SFL 005010	5V/10A	SFL 036002	36V/2A
SFL 005015	5V/15A	SFL 036004	36V/4A
SFL 005020	5V/20A	SFL 036006	36V/6A
SFL 012002	12V/2A	SFL 036008	36V/8A
SFL 012004	12V/4A	SFL 036010	36V/10A
SFL 012006	12V/6A	SFL 036020	36V/20A
SFL 012008	12V/8A	SFL 048002	48V/2A
SFL 012010	12V/10A	SFL 048004	48V/4A
SFL 012020	12V/20A	SFL 048006	48V/6A
SFL 024001	24V/1A	SFL 048008	48V/8A
SFL 024002	24V/2A	SFL 048010	48V/10A
SFL 024003	24V/3A	SFL 048015	48V/15A
SFL 024005	24V/5A	SFL 048020	48V/20A
SFL 024010	24V/10A	SFL 048030	48V/30A

### SERIES DDC

### DC DC CONVERTERS

### **FEATURES:**

- Preset O/P Voltage (5% Adjustable).
- Load & Line Regulation: ±0.2%.
- Ripple: 1% P-P max.
- Noise: 2% P-P max.
- Overload & Short Circuit Protection.
- Switching Frequency 50/100 KHz.
- Modular Construction.
- Input 48 VDC + 10%
- Built- in RFI Suppression.
- Operating Temperature: 0-50°C

#### **OPTIONAL FEATURES:**

- Wider Range of Input 20%
- Input 24V DC.
- DIN Rail mounting / Rack mounting.

MODEL	DESCRIPTION	
	Input (DC)	Output (DC)
DDC 48/5/10	48V	5V/10A
DDC 48/5/20	48V	5V/20A
DDC 48/12/5	48V	12V/5A
DDC 48/12/10	48V	12V/10A
DDC 48/24/2	48V	24V/2A
DDC 48/24/5	48V	24V/5A
DDC 48/24/10	48V	24V/10A
DDC 48/60/1	48V	60V/1A
DDC 48/60/2	48V	60V/2A



#### **APPLICATIONS:**

- Input & Output Isolation.
- Telephone Exchanges / Railways.

### **SERIES SMPS**

### SWITCH MODE POWER SUPPLIES (SMPS)

#### FEATURES:

- Preset O/P Voltage (+5% Adjustable).
- Load & Line Regulation: +0.2%.
- Ripple: 1% P-P max.
- Noise: 2% P-P max.
- Wider Supply Voltage: 176-264V AC, 47-440Hz, 1 Phase.
- Overload & Short Circuit Protection.
- Output Over Voltage Protection.
- · Remote Sensing at Output.
- Carry Over Time min. 20ms.
- Built- in RFI Suppression.
- ◆ Operating Temperature: 0 50°C

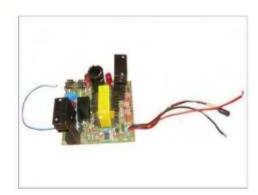
### OPTIONAL FEATURES:

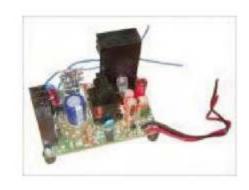
- Multi Output Configuration (Max. two Outputs).
- Wider Input / UniversalInputRange 90 270V AC / DC.
- · Rack Mounting / DIN Rail Mounting.
- SMPS Based Battery Chargers.
- Digital Display for Voltage and Current.

MODEL	DESCRIPTION
SMPS 0512	5V/12A
SMPS 1205	12V/5A
SMPS 1504	15V/4A
SMPS 2403	24V/3A
SMPS 2405	24V/5A
SMPS 2410	24V/10A
SMPS 4802	48V/2A
SMPS 4805	48V/5A
SMPS 4810	48V/10A









### **SERIES FCBC**

#### FLOAT CUM BOOST CHARGERS

#### FEATURES:

- FOR REGULATED TYPE
- Preset O/P Voltage +10% Adjustable.
- Load & Line Regulation: ±0.5%.
- Ripple & Noise: 1mVr.m.s.
- ◆ Input Mains Voltage: 230V AC 10%, 50Hz, 1 Phase.
- Fully Protected Against Overload and Short Circuit by means of Constant Current Characteristics.
- Operating Temp. Range: 0-50°C.
- Manual Boost Charging Facility.
- · Battery under Voltage Protection.
- Output Voltmeter (Load or Battery with Selector Switch).
- Output Ammeter (Load or Battery with Selector Switch).
- Rack Adaptable, Sleek, Compact and Rugged Construction.

#### **OPTIONAL FEATURES:**

- · Output Over Voltage Protection.
- Voltage Dropping Diodes.
- 115V AC (+10% Mains Operation).

### FOR PHASE CONTROLLED TYPE :-

- Preset O/P Voltage +10% Adjustable.
- Load & Line Regulation: +5%.
- · Ripple & Noise: 5% P-P.
- ◆ Input Mains Voltage: 230V AC ±15%, 50Hz, 1 Phase.
- · Fully Protected Against Overload and Short Circuit by means of
- Constant Current Characteristics.
- · Battery Under Voltage Indication / Protection.
- Battery Reverse Voltage Indication / Protection.
- Manual Modes: Float / Boost.
- Auto Modes: Float / Boost.



### **OPTIONAL FEATURES:**

- Output Over Voltage Protection.
- Voltage Dropping Diodes.
- Initial Charging Mode.
- \* 115V AC (+10% Mains Operation).

MODEL	DESCRIPTION	MODEL	DESCRIPTION
FCBC 024003	24V/3A	FCBC 048003	48V/3A
FCBC 024006	24V/6A	FCBC 048006	48V/6A
FCBC 024008	24V/8A	FCBC 048008	48V/8A
FCBC 024010	24V/10A	FCBC 048010	48V/10A
FCBC 024012	24V/12A	FCBC 048012	48V/12A
FCBC 024016	24V/16A	FCBC 048016	48V/16A
FCBC 024020	24V/20A	FCBC 048020	48V/20A



## **SERIES SFC**

### **HIGH CURRENT / HIGH POWER RECTIFIERS**

### **FEATURES:**

- Fully Solid State Circuitry.
- · Continuous Duty Operation.
- Overload / Short Circuit Protection with Indication.
- . Over voltage Indication & Protection.
- Under Voltage Indication.
- · Regulation: +1%
- Ripple: 1% Maximum.
- Digital display for Output Voltage & Current.

### **OPTIONAL FEATURES:**

- Process complete timer with indication & alarm.
- Timer with reset & do not count time during mains failure.
- Ampere hour meter.

DESCRIPTION		
7V/100A		
12V/100A		
35V/125A		
35V/150A		

### APPLICATION:

- Cathodic / Anodic Protection.
- · Electro Plating.
- · Water Treatment.
- · Electro Chlorination.









### **SERIES SVH**

### HIGH VOLTAGE VARIABLE POWER SUPPLIES

#### **FEATURES:**

- Output Voltage Adjustable from 5% to Specified Voltage.
- Current Limit Adjustable from 10% to 110% of Specified Load Current.
- Load & Line Regulation: +0.05%.
- Ripple & Noise: 0.1% max.
- Protected against Overload & Short Circuit by means of Automatic Cross Over Characteristics.
- . Continuous Metering of Output Voltage & Current.
- Input Voltage: 230V AC +10%, 50Hz, Single Phase.
- Operating TemperatureRange: 0 to 50°C.
- · Floating Output.

### **OPTIONAL FEATURES:**

- Over Voltage Protection (Fixed / Variable).
- Input Voltage: 115V AC +10%, 50Hz.
- · Rack Mounting, Wall Mounting, Base Mounting.

MODEL	DESCRIPTION
SVH 300001	15-300V/1A
SVH 300002	15-300V/2A
SVH 300003	15-300V/3A
SVH 300005	15-300V/5A
SVH 6000A5	30-600V/0.5A
SVH 600001	30-600V/1A
SVH 6001A5	30-600V/1.5A
SVH 600002	30-600V/2A
SVH 01K0A1	50-1000V/0.1A
SVH 01K0A3	50-1000V/0.3A
SVH 01K0A5	50-1000V/0.5A
SVH 01K001	50-1000V/1A





### **SERIES SUA**

### 'SUPER' ULTRA ISOLATION TRANSFORMER

### **FEATURES:**

◆ Input Voltage (Primary) : 230V (183V to 264V) or

: 115V (98V to 1 32V)

Output Voltage (Secondary) : 230V (183V to 264V) or

: 115V (98V to 132V)

Common Mode Noise Rejection : More than 130dB

DC Galvanic Isolation : More than 1 000M Ohm between any Winding or

Winding to Case.

Break Down Voltage : 2.5KV AC for 2 Minutes between any winding or

Winding to Case.

Acceptable Line Frequency :46 to 56Hz.

Input / Output Termination : Tenninal Strips.

### **OPTIONAL FACILITIES: (At Extra Cost):**

Built-in Transient Suppressor Limits Surges & Spike of 100V / us.

- Built-in RFI/EMI Suppressor.
- Input Cable with Plug.
- Output Socket of Required Rating

MODEL	DESCRIPTION
SUA 230002	500VA
SUA 230004	1000VA
SUA 230006	1500VA
SUA 230008	2000VA
SUA 230010	2500VA







### **SERIES SNF**

### RFI / EMI FILTER & SPIKE SUPRESSOR

### FEATURES:

Rated Voltage: 0 to 240V AC/DC

· Operating Frequency: 0 to 60Hz, 1 Phase.

 DC Galvanic Isolation: 300M Ohm & above between Input / Output shorted together & earth at 500V DC

Break Down Voltage: 1500V AC between Input / Output Shorted together & earth for 60

· seconds.

Leakage Current: 2 X 0.2 mA max. at 240V, 50Hz.

Voltage Drop: 0.8V r.m.s. max.

◆ Operating Temp. Range: -10°C to +85°C

MODEL	DESCRIPTION
SNF 240005	5A
SNF 240010	10A
SNF 240015	15A
SNF 240020	20A
SNF 240025	25A
SNF 240030	30A











DC POWER SUPPLY MODEL SVL 032002

DC POWER SUPPLY MODEL SVL 032005



DC POWER SUPPLY MODEL SFL 024040



Model MOPS 03



**ELECTRONICS LOAD** 



MULTIOUTPUT DC POWER SUPPLY MODEL MOPS 03



MULTIOUTPUT DC POWER SUPPLY MODEL MOPS 05



REGULATED DC POWER SUPPLY SVP 032030