

POWER SUPPLY UNITS

SERIES SX



Overview

The new Series SX range of Switch-Mode Regulated DC Power Supply Units are designed using state of the art techniques in power switching, providing excellent voltage regulation, high efficiency and low power dissipation. Offered in a wide range of output voltages and power ratings, these power supplies are available in sleek and attractive enclosures in compact and rugged execution. These power supplies incorporate the latest current mode PWM controllers, UFR diodes, MOSFETs and ferrite-core transformers for providing efficient power control and reliable field performance.

The Series SX SMPS units are designed for continuous full load operation in tough industrial environments, while ensuring the protection of the powered equipment by providing galvanic isolation between input and output, besides complete RFI and EMI filtering. Additional protection such as CVCC logic for overload protection, thermal shut-down, electronic switching for short circuit protection and forced cooling are also provided as standard features.

The power supplies are offered in standard DIN Rail or rack-mounting execution in compact and rugged enclosures.

All ASHE range of instruments carry a lifetime warranty for design and workmanship.

Specifications

Models

SMPS >>

SX-2402 [2 Ampere]
 SX-2405 [5 Ampere]
 SX-2410 [10 Ampere]
 SX-2420 [20 Ampere]
 SX-2430 [30 Ampere]
 SX-2440 [40 Ampere]

DC TO DC CONVERTERS >>

CX-2402 [2 Ampere]
 CX-2405 [5 Ampere]
 CX-2410 [10 Ampere]
 CX-2420 [20 Ampere]

BATTERY CHARGERS >>

BX-2405 [5 Ampere]
 BX-2410 [10 Ampere]

Type

Switch-mode DC Regulated Power Supply.

Input Voltage

90 to 270 V AC.

Line Frequency

47 to 53 Hertz.

Output Voltage

24 V DC.

Peak Load current

Upto 40% of rated load current.

Load Regulation

1%.

Line Regulation

1%.

Isolation type

Galvanic [upto 2 KV].

Ripple & Noise

< 1%.

Short circuit protection

Electronic CVCC control.

Indication

Red LED for POWER ON.

Dimensions

As per rating.

Execution

DIN-Rail / Wall mounting.

Weight

As per rating.

Oper. temperature

0 to 50°C.

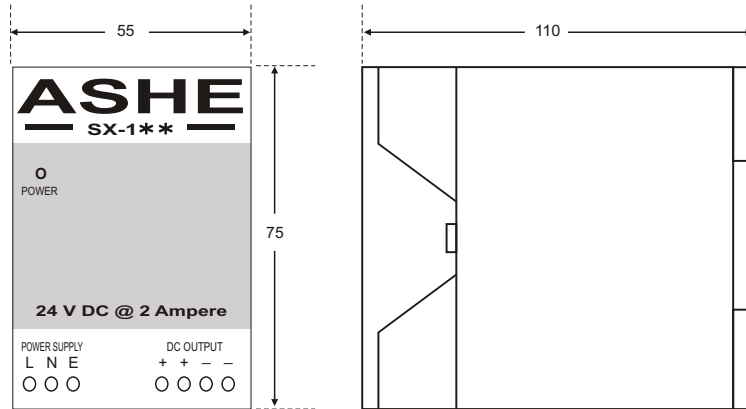
Features

- Load Ratings of 2, 5, 10, 20, 30, and 40 Ampere
- Reliable Current-Mode PWM power control
- Universal Input (90 to 270 V AC, 50/60 Hertz) for some models.
- Multiple Power outputs.
- High output load regulation
- Low heat dissipation
- RFI and EMI filters provided
- Compact and rugged enclosures
- Suitable for Rack/DIN Rail /Wall mounting
- DC to DC converters in various ratings
- Protection from line frequency fluctuations
- Overload protection using CVCC logic
- Short-Circuit protection by electronic switching
- Thermal over-shoot protection
- Built-in Fans for forced cooling
- Digital metering option
- Control Relay output for remote power fail alarm
- Battery Chargers in various ratings
- Galvanic isolation upto 2 kV
- Inrush current protection
- Single/multiple power outputs
- Fast-blow fuses
- Dual-Redundancy option
- High Noise immunity.
- Proven record of several thousand installations
- Lifetime warranty on design and workmanship

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DIMENSIONAL DIAGRAM



Dimensions : 75 x 55 x 110 mm
Execution : DIN Rail mount.

HOW TO ORDER

SWITCH MODE DC POWER SUPPLY
Input : 230 V AC, 50 Hz.
Output : 24 V DC.
Rating : As required.

SX

Configuration and Add-on options w

1 OUTPUT VOLTAGE

- ▶ 12 V DC
- ▶ 24 V DC
- ▶ 48 V DC
- ▶ Other (to be specified)

12
24
48
XY

2 LOAD CURRENT

- ▶ 1 Ampere
- ▶ 2 Ampere
- ▶ 5 Ampere
- ▶ 10 Ampere
- ▶ 20 Ampere
- ▶ 30 Ampere
- ▶ 40 Ampere
- ▶ Other (To be specified)

01
02
05
10
20
30
40
XY

3 POWER SUPPLY

- Standard Power Supply offered
- ▶ Universal AC Power Supply, 90 to 270 V AC, 50/60 Hz.
 - ▶ 230 V AC (±10%), 50 Hz (±10%).
 - ▶ 110 V AC (±10%), 50/60 Hz (±10%).
 - ▶ 110 V DC.
 - ▶ 220 V DC.
 - ▶ Other (to be specified).

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4 EXECUTION

- ▶ DIN Rail mounting
- ▶ Wall mounting
- ▶ Field mounting in Weather-proof execution
(Polycarbonate enclosure, IP65 protection)
- ▶ Field mounting in Flame/Explosion-proof execution
(Cast Aluminum Alloy LM6 enclosure, for Gas groups IIA, IIB)

N
L
W
X

OUR OTHER PRODUCTS



PROCESS CONTROLLER

UNIVERSAL CONTROLLER

FLOW TOTALIZER

TEMP. SCANNER

SIGNAL ISOLATORS & TRANSDUCERS

SMPS POWER SUPPLIES

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