

# POWER SUPPLY UNITS

## SERIES SX



### Applications

- Regulated DC Power Supply
- DC to DC Converter
- Battery Chargers
- Redundant Power Supply

### Features

- Load Ratings of 2, 5, 10, 20, 30, 40 and 50 Ampere (continuous current).
- Reliable Current-Mode PWM power control
- Universal Input Voltage (90 to 270 V AC, 50/60 Hertz) for selected models
- High output load regulation
- Low heat dissipation
- RFI and EMI filters provided
- Compact and rugged enclosures
- Suitable for Rack/Base/Wall mounting
- DC to DC convertor models
- Protection from line frequency fluctuations
- Overload protection using CVCC logic
- Short-Circuit protection by electronic hiccup-mode switching
- Thermal over-shoot protection
- Built-In-fans for forced cooling
- Digital metering option
- Galvanic isolation upto 2.0 kV
- In-rush current protection
- Single / multiple power outputs
- Fast-blow fuses
- Dual-Redundancy option
- Remote Alarm for Power Supply unit failure
- Two-year performance guarantee

### Overview

ASHE CONTROLS offers its new Series SX range of Switch-Mode Regulated DC Power Supply Units in modular execution, for all standard industrial applications requiring reliable and regulated DC voltage supply. Compact and rugged in 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, while ensuring 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 hiccup-mode switching for short circuit protection and forced cooling are also provided as standard features. The power supplies are offered in standard rack-mounting or front/rear-panel or wall mounting executions in attractive anodised aluminium enclosures.

### Specifications

<b>Type</b>	Switch-Mode DC Regulated Power Supply
<b>Input Voltage</b>	90 to 265 Volts AC (for 2 Ampere only) 90-135 /180-270 V AC (for 5, 10, 20, 30, 40 and 50 Ampere) Optionally DC Supply (to be specified) 50 Hertz (± 20%)
<b>Line Frequency</b>	40 to 60 Hertz
<b>Permissible Freq. Range</b>	40 to 60 Hertz
<b>Output Voltage</b>	24 V DC Standard (Optionally 5 V, 12 V, 48 V DC)
<b>Current Ratings</b>	2, 5, 10, 20, 30, 40 and 50 Ampere.
<b>Voltage Setting</b>	Settable upto -5% / +10% of rated output voltage.
<b>Current Setting</b>	Settable internally upto ± 5% of rated output current.
<b>Load Regulation</b>	0.5%
<b>Isolation</b>	Galvanic (Upto 2.0 KV)
<b>Ripple &amp; Noise</b>	± 1% p - p
<b>Execution</b>	Rack / Base / Wall Mounting
<b>Overload Protection</b>	Current limiting with CVCC logic
<b>Short Circuit Protection</b>	Electronic (Hiccup Mode in 1 sec. cycles)
<b>Control Output</b>	Relay contacts for remote switching (optional)
<b>Indication</b>	Red LED for Power ON
<b>Enclosure</b>	Aluminium extruded housing.
<b>Dimensions</b>	70x135x160 mm [for 2 and 5 A loads] 180x110x160 mm [for 10 A load] 265x110x220 mm [for 20 A load]
<b>Fuse</b>	Provided on front panel
<b>Ventilation</b>	Slots provided in enclosure
<b>External Cooling (Fan)</b>	Provided for 10, 20, 30, 40 and 50 A models
<b>Operating Temperature</b>	0 to 55° C
<b>Humidity Range</b>	Upto 95% RH Non-condensing

# POWER REGULATION