

## SWITCH-MODE POWER SUPPLY UNIT

MODEL : SX-2405

### DESCRIPTION

The new Series SX range of Switch-Mode Regulated DC Power Supply Units are designed using state of the art techniques in power switching, thereby 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 and low weight. 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. They ensure protection of the powered equipment by providing galvanic isolation between input and output, besides complete RFI and EMI filtering. Additional protections 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 instrument is offered in standard and rugged industrial grade enclosures in DIN Rail / Rear-panel mounting execution. Absence of any moving parts provides these instruments inherent advantages like immunity to mechanical Shocks, Dust, Ambient Temperature, Humidity mildly Corrosive ambiances.

### SPECIAL FEATURES

- Load Ratings of 1.0, 2.0, 5, 10, 20, 30 and 40 Amperes (continuous current).
- Reliable Current-Mode PWM power control
- Universal Input Voltage (90 to 270 V AC, 50/60 Hertz) for some models.
- High output load regulation
- Low heat dissipation
- RFI and EMI filters provided
- Compact and rugged enclosures
- Suitable for Rack/Base/Wall mounting
- Protection from line frequency fluctuations
- Overload protection using CVCC logic
- Short-Circuit protection by electronic hiccup-mode switching
- Thermal over-shoot protection
- Galvanic isolation upto 2.2 kV
- In-rush current protection

- Single/multiple power outputs
- Fast-blow fuses
- Three-year performance guarantee

### TERMINAL DIAGRAM

TERMINAL NUMBER	DETAILS		
1	-	} 24 V DC @5A OUTPUT VOLTAGE	
2	-		
3	+		
4	+		
5	}	NO CONNECTIONS	
6			
7			
8			
9			
10			
11			
12			
13	}	INPUT POWER SUPPLY 90-270 VAC, 50 Hz	
14			
15			EARTH
16			NO CONN.
17			NEUTRAL
18	NO CONN.		
19	LINE		

### TECHNICAL SPECIFICATIONS

Model	: ASHE SX-2405.
Type	: Switch-mode DC Regulated Power Supply.
Input Voltage	: 90 to 270 V AC, 50 Hz.
Output Voltage	: 24 V DC @5A.
Peak Load current:	: Upto 40% of rated load current.
Load Regulation	: ± 1%.
Isolation type	: Galvanic.
Ripple & Noise	: < 1%.
SC protection	: Electronic CVCC control.
Indication	: Red LED for <i>POWER ON</i> .
Dimensions	: 75 x 100 x 110 mm (H x W x D).
Execution	: DIN-Rail / Rear panel mounting.
Weight	: Approximately 0.3 Kgs.
Oper. temperature:	: 0 to 50 °C.