

# 24VDC/36VDC STANDBY POWER SUPPLIES

## SP3200 SP3300

### SP3200/SP3300 Series

SP3200 & SP3300 Series Standby Power Supplies are designed for not only AC line normal but also standby powering needs in Cable Television and Broadband Communications Networks. Its total modular construction consists of a Ferroresonant module, a Standby module, and a pole/wall mount aluminized steel enclosure with the System Circuits Box. Backup power is achieved by a set of rechargeable, maintenance-free batteries.

The power supply provides the high quality AC square wave output power with surge protection, overload protection, current limited, short circuit protection, and EMI protection to ensure that years of trouble-free operation.



### Standard Features

- Totally modular construction and System Circuits Box designed for easy to install, maintain, replace, or upgrade.
- Quasi-square wave output in ferroresonant mode and square wave output in standby mode provides regulated and conditioned power.
- Automatic switch-over when either module is unplugged and no power loss when either module is removed.
- 90% high efficiency and  $\pm 2\%$  regulation at full load.
- MOV (Metal Oxide Varistor) input surge protection.
- Thermal circuit breaker overload protection.
- Ferroresonant flodback limited to protect amplifier module.
- Long-standing short circuit protected and automatic restart upon short or overload is removed.
- EMI (Electromagnetic Interference) filter output protection.
- Auxiliary AC convenience outlet.
- Auxiliary inlet for emergency generator power supply.
- Cooling fan operates in standby mode only for longer transformer life.
- Battery breaker and thermostatically controlled battery charging.
- AC input, normal main, and standby main status indicators on bottom of enclosure.
- Security lock included and auxiliary mounting bracket options available.
- Lightweight heavy-duty aluminized steel enclosure and grey epoxy powder coat finish. Durable and weatherproof design idea for use in the harshest of environments.
- All external fasteners stainless steel.



### TEAM-HOLD TECHNOLOGY

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# 24VDC/36VDC STANDBY POWER SUPPLIES

## Nominal Specifications

Model Number	Input Voltage	AC Line Frequency	Output Voltage	Output Current	Output Power	Weight* lbs. (kgs.)
SP3206	110 ± 15 VAC or 220 ± 25 VAC	60 Hz. or 50 Hz. (Nominal)	60 VAC or 50 VAC (RMS)	6 Amps	360 VA	60.4 (27.4)
SP3209				9 Amps	540 VA	64.8 (29.4)
SP3212				12 Amps	720 VA	71.0 (32.2)
SP3215				15 Amps	900 VA	76.7 (34.8)
SP3306				6 Amps	360 VA	64.8 (29.4)
SP3309				9 Amps	540 VA	69.2 (31.4)
SP3312				12 Amps	720 VA	75.4 (34.2)
SP3315				15 Amps	900 VA	81.1 (36.8)

\* Batteries weight not included.

■ Available in various input/output voltages and frequencies for international applications.

## General Specifications

### Ferroresonant Module Characteristics

#### Output Wave Form

Quasi-Square Wave

#### Regulation

±2%

#### Efficiency

90% Typical

#### Surge Protection

57 or 107 Joule MOV Standard

#### Overload Protection

5, 10, or 15 Amps Thermal Circuit Breaker

#### Foldback Limited

125% of Full Load Typical

#### Accessory

Auxiliary AC Convenience Outlet

#### Transfer Time

8 Milliseconds Typical

#### Transfer Delay Protection

8 Seconds Typical

### Standby Module Characteristics

#### DC Input Voltage

24VDC or 36VDC

#### Batteries Quantity & Type

Two or Three 12 VDC Maintenance-Free

#### Output Wave Form

Square Wave

#### Efficiency

90% Typical

#### Charger Type

Constant Voltage Float Charger

#### Charge Current

3 Amps (Maximum)

#### Thermal Protection

149°F (65°C) Temperature Compensated Battery Charger

#### Standby Time\*

2 or 3 Hours Typical

#### Recharge Time\*

16 ~20 Hours Typical

### General Characteristics

#### Status Indicators

AC Input (Orange), Normal Main (Green), & Standby Main (Red)

#### Accessories

Auxiliary Inlet, & Ground Clamp

#### Mounting Style

Pole or Wall Mount

#### Temperature Range

-40°F to +140°F (-40°C to +60°C)

#### Relative Humidity

0 ~ 95% (Non-Immersible)

#### Dimensions

**SP3200 Series**  
16.3" W × 17.7" H × 16.3" D  
(415mm W × 450mm H × 415mm D)

#### SP3300 Series

22.8" W × 17.7" H × 16.3" D  
(580mm W × 450mm H × 415mm D)

\* Standby and recharge time based on 100AH batteries at 77°F (25°C), & typical 80% load.

Figures will vary according to: battery age, capacity & condition; type of load, temperature and other factors.

■ Specifications subject to change without notice.

## Ordering Matrix

### SP32 06 A B

- 06: Output Current 6 Amps.
- 09: Output Current 9 Amps.
- 12: Output Current 12 Amps.
- 15: Output Current 15 Amps.
- SP32: 24VDC Standby Power Supplies
- SP33: 36VDC Standby Power Supplies
- B: Two or Three Batteries Included
- N: Batteries Excluded.
- A: Input 110VAC/60Hz, Output 60VAC
- E: Input 220VAC/50Hz, Output 60VAC
- P: Input 220VAC/60Hz, Output 60VAC
- S: Input 220VAC/50Hz, Output 50VAC

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