

## Switching Power Supply Driver

### ST-12WCVD Series

#### Key Features

- Built-in EMI filter
- 3 years warranty
- 100% load aging test
- Wide range of input voltage: 110–240VAC
- Accurate and stable output voltage
- High efficiency, long life, and high reliability
- Average no-trouble working time: > 20,000 hours
- Output over-voltage, over-current, and short-circuit protection

#### Electrical Specifications

Input Voltage: 110–240VAC

Input Frequency: 50/60Hz

Input Surge: Cold start / 230VAC

Start-up Time:  $\leq 1s$  (input 230V,  $I_o=100\%$ )

Keep Time:  $\geq 20ms$  (input 230V,  $I_o=100\%$ )

Voltage Regulation (Full Load):  $\leq 0.5\%$

#### Protection Functions

- Overload Protection: 105%–150% rated power, automatic recovery
- Over-voltage Protection: 105%–150% of rated voltage
- Short-circuit Protection: Yes

#### Insulation Strength

Input–Output: 1500VAC / 1 min

Input–Ground: 1500VAC / 1 min

Output–Ground: 500VAC / 1 min

**Standards**

Safety Standards: GB4943, UL60950-1, EN60950-1

EMC Standards: GB9254, EN55022 Class A, EN61347-2-13:2008

**Environmental Conditions**

Operating Temperature: -20°C to 60°C / 20%–90% RH (no frost)

Storage Temperature: -40°C to 85°C / 10%–95% RH (no frost)

Altitude: ≤2000M

**Physical Specifications**

Dimensions (mm): 89 (L) × 39 (W) × 24 (H)

Cooling Method: Natural air convection

Weight: 49g/PCS

**Product Model Table**

Product Model	Output Voltage	Output Current	Ripple & Noise	Efficiency
ST-12WCVD-IP20-24	24V	0.5A	200mV	85%

