

## Data Sheet

### SMP\*C Multi - Channel Output Regulated DC Power Supply

- Multiple channel independent outputs. (2 ~ 5 channels optional)
- One Channel Power range: 100 ~ 600W
- One Channel Voltage range: 18 ~ 600V
- One Channel Current range: 1 ~ 30A
- CC / CV automatic switching.
- High precision display, 0.01 display accuracy.
- 19-inch standard chassis, can be mounted on the rack.
- Soft start and anti-shock functions to bring down impact on the grid.
- OVP, OCP, OTP protections etc.



## Overview

The SMP\*C series is switching mode DC power supply is a multi – channel output DC power supply with multi-channel independently adjustable outputs, each channel has a maximum output power of 600W for continuous working.

This series regulated DC power supply is suitable for many industrial applications such as aging and testing, it is the first choice for production lines, laboratories and universities.

## Features

- 2 ~ 5 Channels output acceptable.



- Max. Output power of each channel reaches 600W.
- CV / CC working modes, automatic switchable between two modes.
- V & I of each channel continuously adjustable via 10-turn potentiometer & button setting.
- Output voltage & current LED display.
- Intelligent fan cooling, withstand continuous working.
- Adaptability to continuous or dynamic loads.
- Over heat & Over current protection.
- 434\*132\*500 benchtop housing.
- Low ripple and noise.

## Optional Functions

- *Support series connection of four-channel outputs to give higher output voltage. (Manual external series connection)*

## Applications

- Products burn-in test, such as DC motors, DC fans, vehicle DVD, vehicle AUDIO, resistors and capacitors etc.
- LED, motors and DC fans test.
- Accumulator charging.
- Labs and universities.
- Small electrolysis or electroplating system.
- Other conditions need stable DC output

## One – Channel Specifications (2 ~ 5 channels optional)

|              |         |                         |
|--------------|---------|-------------------------|
| <b>Input</b> | Voltage | Single – phase 220V±10% |
|--------------|---------|-------------------------|

|  |                                      |  |   |
|--|--------------------------------------|--|---|
|  | Frequency                            | 50Hz/60Hz  |   |
| <b>Output</b>                                | Rated power                          | * W  |   |
|  | Output voltage                       | Adjusting range  | 0V ~ Rated Value                                  |
|  |                                      | Line regulation  | < 0.5%±20mV (Stability @ ±10% Δ UIN)              |
|  |                                      | Load regulation  | < 0.5%±20mV (Stability @ 10% ~ 90% load variance) |
|  |                                      | Ripple   | < 0.5% F.S. (≤20mVrms @ 300KHz)                   |
|  | Output current                       | Adjusting range  | 0A ~ Rated Value                                  |
|  |                                      | Line regulation  | < 0.2%+3mA (Stability @ ±10% Δ UIN)               |
|  |                                      | Load regulation  | < 0.2%+5mA (Stability @ 0 ~ 100% Δ UOUT)          |
|  | Output Channel                       | 2 ~ 5 Channels optional.<br>0 ~ 600W Max / Channel   |   |
| <b>Setting &amp; Display</b>                 | Control mode                         | Front panel knob & button control  |   |
|  | Display mode                         | LED digital display  |   |
|  | Display stability                    | ≤±3 digits (30mins)  |   |
| <b>Protection &amp; Monitoring functions</b> | Output over voltage protection (OVP) | Power supply automatically cuts off output and alarms when output has over voltage.  |   |
|  | Output over current protection (OCP) | Power supply automatically switches to CC working when the output has over current.  |   |
|  | Over temperature protection (OTP)    | Power supply automatically cuts off output and alarms when the internal temperature of the power supply exceeds its threshold value. |   |
| <b>Noise</b>                                 |                                      | ≤55dB  |   |
| <b>Protection degree</b>                     |                                      | IP20   |   |
| <b>Cooling method</b>                        |                                      | Forced air cooling   |   |
| <b>Working conditions</b>                    | Ambient temperature                  | 0°C ~ 45°C   |   |
|  | Humidity                             | 10% ~ 90%(non-condensing)  |   |
|  | Height                               | ≤2000m   |   |
| <b>Size (W*H*D) (mm)</b>                     |                                      | 434*132*500 (handle excluded)  |   |
| <b>Weight</b>                                |                                      | Approx. 20Kg   |   |

**Multi – Channel Outputs has the same output specification indicated above.**

**Naming mechanism (example: SMP4C3210)**

|   |   |   |
|---|---|---|
| <b>SMP4C3210</b>                          | <b>32</b>   | <b>10</b>   |
| <b>SMP: Main series<br/>4C: 4-channel</b> | <b>Max. output voltage of each channel is 32Vdc</b> | <b>Max. output current of each channel is 10A</b> |

### Model list

| <b>Output Voltage</b> | <b>Optional Output Current</b> | <b>Dimension (W*H*D)<br/>(mm)</b> | <b>Packing</b> |
|-----------------------|--------------------------------|-----------------------------------|----------------|
| <b>18V</b>            | 6/10/15/20/30A                 | 434*132*500                       | Plywood case   |
| <b>32V</b>            | 6/10/15/20A                    | 434*132*500                       | Plywood case   |
| <b>36V</b>            | 6/7.5/10/15/20A                | 434*132*500                       | Plywood case   |
| <b>50V</b>            | 5/8/12A                        | 434*132*500                       | Plywood case   |
| <b>60V</b>            | 3/5/10A                        | 434*132*500                       | Plywood case   |
| <b>75V</b>            | 3/4/5/6A                       | 434*132*500                       | Plywood case   |
| <b>100V</b>           | 1/2/3/4/5A                     | 434*132*500                       | Plywood case   |
| <b>220V</b>           | 1/2/3A                         | 434*132*500                       | Plywood case   |
| <b>300V</b>           | 1/2A                           | 434*132*500                       | Plywood case   |
| <b>500V</b>           | 0.5/1A                         | 434*110*400                       | Plywood case   |

**More models are coming soon. ☺**