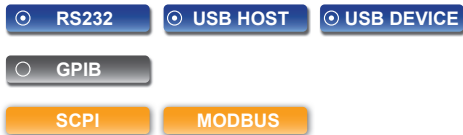


STF4402B Series Quadruple-channel Programmable DC Power Supply



Note: The STF4402A has no RS232 port or USB DEVICE port

Overview

The STF4400 series multi-output programmable DC power supply covers five models (single channel power range 5W-180W), of which the STF4402B has a 4-channel output and the remaining models have a 3-channel output. The whole series of power supply has the function of inter-channel series, parallel and synchronous output, and the output parameters of all channels are displayed on the same screen, which is more convenient and intuitive to use.

STF4400 series power supply is linear, programmed output design, so the series of power supply has a small ripple, low noise, high precision, strong stability of the excellent performance.

The whole series adopts 4.3" TFT LCD display, which is divided into different channels and distinguished by high contrast colors. In terms of UI design, the instrument adopts menu operation, soft key, knob control and input parameters, which is convenient and fast to use, and can well adapt to the fast operation of the production line and the application needs of universities and laboratories.

The STF4400 series comes standard with RS232, USB HOST, and USB DEVICE interfaces (note: STF4402A no RS232 interface and USB DEVICE interface), can be optional GPIB interface, support SCPI and MODBUS communication protocols, can easily purchase the upper computer software or edit to meet the needs of system integration. The small size, standard chassis size and the output of both front and rear panels make the STF4400 series power supply easily integrated in a standard cabinet.

Application

- Develop and design validation common tests
- Routine testing and maintenance of production line workbench
- Automated equipment integration testing
- Solar photovoltaic simulation test
- New power vehicle simulation test
- Teaching laboratory

Accessories

Accessories: three-core power cord
YT3007 Test cable
YT3008 Test cable

Optional accessories:
SBF0035D high current test cable,
SBF0035E high current test cable

Features

- Linear design: high stability, low ripple, low noise,
- Three/four channel output: Support series, parallel or synchronous output between channels
- High precision, high resolution: 1mV/0.1mA
- 24-bit color 4.3" TFT LCD, resolution: 480x272
- Simple system Settings, English and Chinese operation interface
- Three/four channel voltage, current, power and timing time are displayed simultaneously
- 1/2 2U ultra-small size, front and rear panel output and sampling end
- 40 groups of state memory are saved and invoked per channel
- Timing output: Time (0.1-99999.9s)
- Knob and numeric keypad set voltage, current and output time
- Panel function buttons backlight display
- Remote measurement function to compensate for online pressure drop
- Copy screen function
- Data logging function
- Over voltage, over current protection, intelligent temperature control fan
- Support standard SCPI and MODBUS communication protocols
- Monitor through computer software and upgrade instrument firmware through U disk

STF4400 Series DC Power Supply:

Module No.	CH No.	Voltage	Current	Power
STF4402A	CH1	0-30V	0-3A	90W
	CH2	0-30V	0-3A	90W
	CH3	0-5V	0-3A	15W
STF4402B	CH1	0-30V	0-3A	90W
	CH2	0-30V	0-3A	90W
	CH3	0-10V	0-3A	30W
	CH4	0-5V	0-1A	5W
STF4402	CH1	0-30V	0-3A	90W
	CH2	0-30V	0-3A	90W
	CH3	0-6V	0-5A	30W
STF4412	CH1	0-30V	0-6A	180W
	CH2	0-30V	0-6A	180W
	CH3	0-6V	0-5A	30W
STF4413	CH1	0-60V	0-3A	180W
	CH2	0-60V	0-3A	180W
	CH3	0-6V	0-5A	30W

Size/Weight

STF4402/STF4402A

Shelf volume (mm) : 215(W)×88(H)×412(D)

External volume (mm) :

235(W)×111(H)×440(D) Net weight: 8.1kg

STF4402B/STF4412/STF4413

Shelf volume (mm) : 215(W)×88(H)×473(D)

External volume (mm) :

235(W)×111(H)×501(D) Net weight: 13kg

(STF4402B is 12kg)

Specifications

Model		STF4402A			STF4402B				STF4402			STF4412			STF4413			
	CH/Range	CH1	CH2	CH3	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3	
Rated output (0°C-40°C)	Voltage	1-30V		0-5V	1-30V		0-10V	0-5V	0-30V		0-6V	0-30V		0-6V	0-60V		0-6V	
	Current	1-3A			1-3A				0-1A	0-3A		0-5A	0-6A		0-5A		0-3A	0-5A
	Power	90W		15W	90W		30W	5W	90W		30W	180W		30W	180W		30W	
	Load adjustment rate	Voltage	≤0.01%+3mV															
	Current	≤0.1%+3mA									≤0.01%+3mA							
Power regulation	Voltage	≤0.01%+3mV																
	Current	≤0.1%+3mA									≤0.01%+3mA							
Set value resolution	Voltage	10mV			1mV													
	Current	1mA			0.1mA													
Read back value resolution	Voltage	10mV			1mV													
	Current	1mA			0.1mA													
Set value accuracy (25°C±5°C)	Voltage	≤0.05%+20mV			≤0.1%+20mV				≤0.03%+10mV									
	Current	≤0.2%+5mA			≤0.2%+5mA				≤0.1%+5mA			≤0.1%+8mA		≤0.1%+5mA		≤0.1%+5mA		
Read back accuracy (25°C±5°C)	Voltage	≤0.05%+20mV			≤0.1%+20mV				≤0.03%+10mV									
	Current	≤0.2%+5mA			≤0.2%+5mA				≤0.1%+5mA			≤0.1%+8mA		≤0.1%+5mA		≤0.1%+5mA		
Ripple and noise (20Hz-20MHz)	Voltage(V _{p-p})	≤3mVp-p			≤3mVp-p				≤3mVp-p		≤4mVp-p		≤4mVp-p			≤4mVp-p		
	Voltage(rms)	≤1mVrms			≤1mVrms				≤1mVrms		≤1mVrms		≤1mVrms			≤1mVrms		
	Current	≤3mA _{rms}			≤3mA _{rms}				≤3mA _{rms}		≤5mA _{rms}		≤5mA _{rms}			≤4mA _{rms}		≤5mA _{rms}
Series synchronization error		≤0.02%+5mA			≤0.2%+10mA				≤0.05%+10mA									
Parallel setting Accuracy	Voltage	≤0.02%+5mV			≤0.02%+10mV				≤0.02%+5mV			≤0.02%+5mV			≤0.02% + 10mV			
	Current	≤0.1%+20mA			≤0.2%+20mA				≤0.1%+20mA			≤0.1%+30mA			≤0.1%+30mA			
Memory	Callback storage	40 groups of configuration files/channels																
	Function	Timed off output																
Timer	Time set	0.1~99999.9 sec																
	Resolution	0.1 sec																
Operating temperature		0°C~40°C																