FTL series

Multi-channel programmable linear DC power supply

Summary

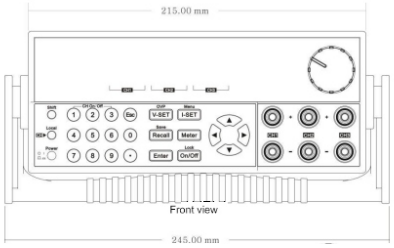
FTL multi-programmable linear DC power supplies feature high resolution, high accuracy and high stability with overvoltage/overheat protection, series and parallel operation modes, and resolutions up to 1mV/1mA.

Characteristic

- Three-way simultaneous voltage/current display, and all adjustable;
- Intelligent temperature control fan to reduce noise;
- Optional series/parallel or synchronized use;
- Low ripple and low noise;
- Software monitoring and calibration can be carried out through computer;
- Remote measurement function (SENSE) to compensate the voltage drop on the line;
- Timable output time (0.1 to 3600 seconds);
- Output with switch control;
- 40 sets of setting data can be saved, fast storage recall;
- Interface: RS-232, USB;
- Optional LAN port for 3-way power supply.

Application filed

- Routine testing and maintenance of production line benches;
- Laboratories, research institutes;
- Electronic repairs;
- Automation equipment integration testing.



Dimension drawing

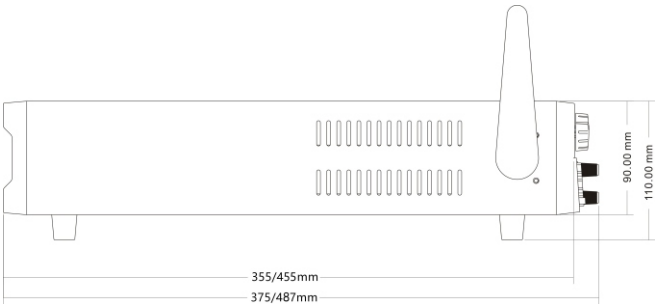
FTL3003-3/FTL3006-3/FTL6003-3

FTL3003F-3/FTL3006F-3/FTL6003F-3

Bare metal size: 215(W)X90(H)X375(D)mm

FTL3003-3X/FTL3006-3X/FTL6003-3X

Bare metal size: 215(W)X90(H)X487(D)mm



Ordering information

Model	Power	Voltage	Current	Resolution
FTL3003-3	90W*2/18W*1	31V*2/6V*1	3A*3	1mV/1mA
FTL3006-3	180W*2/18W*1	31V*2/6V*1	6A*2/3A*1	1mV/1mA
FTL6003-3	180W*2/18W*1	61V*2/6V*1	3A*3	1mV/1mA
FTL3003-3X	90W*3	31V*3	3A*3	1mV/1mA
FTL3006-3X	180W*3	31V*3	6A*3	1mV/1mA
FTL6003-3X	180W*3	61V*3	3A*3	1mV/1mA
FTL3003F-3	90W*1/-90W*1/18W*1	31V*1/-31V*1/6V*1	3A*3	1mV/1mA
FTL3006F-3	180W*1/-180W*1/18W*1	31V*1/-31V*1/6V*1	6A*2/3A*1	1mV/1mA
FTL6003F-3	180W*1/-180W*1/18W*1	61V*1/-61V*1/6V*1	3A*3	1mV/1mA

Specification table

Model		FTL3003-3	FTL3006-3	FTL6003-3	FTL3003-3X	FTL3006-3X	FTL6003-3X
Rated output	Voltage	0～31V*2/0～6V*1	0～31V*2/0～6V*1	0～61V*2/0～6V*1	0～31V*3	0～31V*3	0～61V*3
	Current	0～3A*3	0～6A*2/0～3A*1	0～3A*3	0～3A*3	0～6A*3	0～3A*3
Model		FTL3003F-3	FTL3006F-3	FTL6003F-3	-	-	-
Rated output	Voltage	0～31V/0～-31V/ 0～6V*1	0～31V/0～-31V 0～6V*1	0～61V/0～-61V 0～6V*1	-	-	-
	Current	0～3A*3	0～6A*2/0～3A*1	0～3A*3	-	-	-
Load regulation rate	Voltage	≤0. 01%+3mV					
	Current	≤0. 01%+3mA					
Power regulation rate	Voltage	≤0. 01%+3mV					
	Current	≤0. 01%+3mA					
Setting value resolution	Voltage	1mV					
	Current	1mA					
Readback resolution	Voltage	1mV					
	Current	1mA					
Setpoint accuracy	Voltage	≤0. 03%+10mV					
	Current	≤0. 1%+5mA	≤0. 1%+8mA	≤0. 1%+5mA	≤0. 1%+5mA	≤0. 1%+8mA	≤0. 1%+5mA
Readback accuracy	Voltage	≤0. 03%+10mV					
	Current	≤0. 1%+5mA	≤0. 1%+8mA	≤0. 1%+5mA	≤0. 1%+5mA	≤0. 1%+8mA	≤0. 1%+5mA
Ripple and noise	Voltage(rms)	≤2mVrms					
	Current	≤5mArms					
Series/Parallel setpoint accuracy	Voltage	≤0. 2%+5mV	≤0. 2%+10mV	≤0. 2%+5mV	≤0. 2%+10mV	≤0. 2%+10mV	≤0. 2%+5mV
	Current	≤0. 1%+30mA					
Memory	Store/Call	40 grops					
	Functions	Timing off output					
Timer	Time setting	0. 1s～3600s					
	Resolution	0. 1s					
Working temperature		0～40℃					
Bare metal size (W*H*D)	mm	215*90*375	215*90*375	215*90*375	215*90*485	215*90*485	215*90*485
Box size (W*H*D)	mm	325*210*475	325*210*475	325*210*475	325*210*575	325*210*575	325*210*575
Net weight	kg	8. 5	8. 5	8. 5	11	11	11
Gross weight	kg	10	10	10	13	13	13

FTL series

Multichannel programmable linear DC power supply

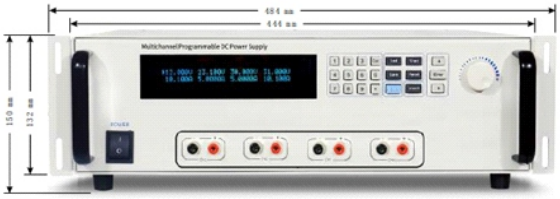
Characteristic

- Multi in 1 is easy to install and takes up little space;
- 30V/3A,30V/5A,60V/3A five-way isolated output;
- 30V/10A, 60V/5A four-way isolated output;
- Voltage compensation function, improve accuracy;
- 1mV/0.1mA high resolution;
- Linear power supply, low ripple;
- Panel operation, stand-alone use is also very convenient;
- Comes standard with RS-232.

Dimension

FTL3003-5X / 3005-5X / 6003-5X / 3010-4X / 6005-4X

Bare unit dimension: 484(W)X132(H)X380(D)mm



Application filed

- Routine test and maintenance of production line workbench;
- Laboratory, research institute;
- Automated equipment integration test;
- Electronic maintenance.

Ordering formation

Model	Power	Voltage	Current	Resolution
FTL3003-5X	90W*5	30V*5	3A*5	1mV/0. 1mA
FTL3005-5X	150W*5	30V*5	5A*5	1mV/0. 1mA
FTL6003-5X	180W*5	60V*5	3A*5	1mV/0. 1mA
FT6005-4X	300W*4	60V*4	5A*4	1mV/0. 1mA
FTL3010-4X	300W*4	30V*4	10A*4	1mV/1mA

Specification Table

Model		FTL3003-5X	FTL3005-5X	FTL6003-5X	FT6005-4X	FTL3010-4X
Rated output voltage		0～30V*5CH	0～30V*5CH	0～60V*5CH	0～60V*4CH	0～30V*4CH
Rated output current		0～3A*5CH	0～5A*5CH	0～3A*5CH	0～5A*4CH	0～10A*4CH
Variable voltage mode		Linear power supply				
Load regulation rate	Voltage	≤0. 02%+5mV				
	Current	≤0. 02%+5mA				≤0. 02%+10mA
Power regulation rate	Voltage	≤0. 02%+5mV				
	Current	≤0. 02%+5mA				≤0. 02%+10mA
Setting value resolution	Voltage	1mV				
	Current	0. 1mA				1mA
Setting accuracy (25℃±5℃)	Voltage	≤0. 05%+5 Byte				
	Current	≤0. 05%+2mA				
Readback resolution	Voltage	1mV				
	Current	0. 1mA				1mA
Readback accuracy (25℃±5℃)	Voltage	≤0. 05%+5 Byte				
	Current	≤0. 05%+2mA				
Temperature coefficient	Operating environment	0～40℃≤80%RH				
	Storage environment	-15～70℃≤80%RH				
Interface	Standard configuration	RS232				
Bare metal size(W*H*D)	mm	484*132*380				
Net weight	kg	24. 3				