Tripple-output Programmable DC Power Supply

30V-3A * 3CH or 30V-6A * 3CH or 60V-3A * 3CH



Optional FTL3006-3 30V/6A * 2CH, 6V/3A *1CH

- 2U half-rack instrument delivers up to 540 W of power with low ripple and noise, or 180 W per channel;
- Linear type high resolution, high precision (1mV/1mA), high stability DC power supply;
- Capability to do series or parallel, or tracking among the channels;
- Monitor the voltage and current output in real time for all channels;
- All channels are individually controllable;
- Save and recall up to 40 groups of V/I setups;
- Voltage remote sense compensation;
- Output timer (0.1 ~ 3600 seconds);
- Overvoltage, overtemperature protections;
- Standard RS232, USB, support SCPI commands;
- Intelligent fan control, reduces noise.

General

FTL tripple-output series linear DC power supplies provide three individually controllable output channels, which can be operated in series, parallel or tracking mode. The 2U half-rack device delivers up to 540 W of power with low ripple and noise, or 180 W per channel, and offers functionalities such as remote sense, output timer, channel max voltage, overvoltage and overtemperature protections etc.. The instrument comes standard with RS232, USB ports, supports SCPI programming commands.

Model options

Model options								
Madal Name	CH1		CH2		CH3			
Model Name	Voltage	Current	Voltage	Current	Voltage	Current		
FTL3003-3	30V	3A	30V	3A	6V	3A		
FTL3006-3	30V	6A	30V	6A	6V	3A		
FTL6003-3	60V	3A	60V	3A	6V	3A		
FTL3003-3X	30V	3A	30V	3A	30V	3A		
FTL3006-3X	30V	6A	30V	6A	30V	6A		
FTL6003-3X	60V	3A	60V	3A	60V	3A		



FTL Tripple-output Series

Specifications

Noting	Model		FTL3003-3	FTL3006-3	FTL6003-3	FTL3003-3X	FTL3006-3X	FTL6003-3X		
Current Curr	Wodel	Voltago								
Regulation Current Substituting Substitutin	Rated Output									
Regulation Current S0.01%+3mA S0.01%+3mV S0.01%+3mA S0.01%+5mA S0.02%+5mV S0.02%	Lood		03 A 3	00A 2/03A 1			00 A 3	03 A 3		
Moltage										
Current Set Resolution Current Set Resolution Current Set Resolution Current Set Accuracy Voltage Set New Solution Current Set New Solution Current Set New Solution	Regulation									
Set Resolution Voltage Readback Voltage Set New Set Not Not Not Not Not Not Not Not Not No	Line Regulation	_								
Set Resolution Current 1mb Readback Voltage 1mV Resolution Current 1mb Set Accuracy Voltage 50.1%+5mA ≤0.1%+5mA ≤0.02%+10mV <										
Readback Voltage 1mV Resolution Current Current 1mV Set Accuracy Voltage ≤0.1%+5mA ≤0.1%+5mA ≤0.1%+5mA ≤0.1%+5mA ≤0.1%+8mA ≤0.1%+5mA ≤0.0%+15mA ≤0.0%	Set Resolution	_								
Resolution Current Yoltage Set Accuracy Yoltage Set Accuracy Set Accuracy <th< td=""><td></td><td colspan="8"></td></th<>										
Set Accuracy Voltage ≤0.1%+5mA ≤0.1%+8mA ≤0.1%+5mA ≤0.1%+8mA ≤0.1%+5mA ≤0.1%+8mA ≤0.1%+5mA ≤0.1%+8mA ≤0.1%+5mA ≤0.1%+8mA ≤0.1%+5mA ≤0.1%+8mA ≤0.1%+5mA ≤0.1%+5mA ≤0.1%+8mA ≤0.1%+5mA ≤0.02%+10mV	Readback	Voltage	1mV							
Set Accuracy Current ≤0.1%+5mA ≤0.02%+10mV ≤0.02%+10m	Resolution		1mA							
Current ≤0.1%+5mA ≤0.1%+8mA ≤0.1%+5mA ≤0.1%	Set Accuracy	Voltage	≤0.03%+10mV							
Accuracy Current ≤0.1%+5mA ≤0.1%+8mA ≤0.1%+5mA ≤0.1%+5mA ≤0.1%+8mA ≤0.1%+5mA Ripple Noise Current ≤0.1%+5mA ≤0.1%+5mA ≤0.1%+5mA ≤0.1%+5mA ≤2mVrms Serial/Parallel Voltage ≤0.02%+5mV ≤0.02%+5mV ≤0.02%+10mV ≤0.02%+10mV ≤0.02%+5mV Set Accuracy Current Save/Call 40 Goups of Setups Timer Range 0.1 s~ 3600 s Work Temp. 0.1 s Dimension (W* H* D) mm 255*110*380 255*110*380 255*110*480 255*110*480 255*110*480 255*110*480 255*110*480 255*110*480 255*110*575 325*210*575 325*210*575 325*210*575 325*210*575 325*210*575 325*210*575 325*210*575 325*210*575 325*210*575 325*210*575 <	20171000.009	Current	≤0.1%+5mA	≤0.1%+8mA	≤0.1%+5mA	≤0.1%+5mA	≤0.1%+8mA	≤0.1%+5mA		
Noltage Noltage Serial/Parallel Current Serial/Parallel Voltage So.02%+5mV So.02%+10mV So.02%+5mV So.02%+10mV So.02%+5mV So.02%+5mV So.02%+5mV So.02%+5mV So.02%+5mV So.02%+10mV So.02%+5mV So.02%+5mV So.02%+5mV So.02%+5mV So.02%+10mV So.02%+5mV So.02%+5mV So.02%+10mV So.02%+5mV So.02%+5mV So.02%+5mV So.02%+5mV So.02%+10mV So.02%+10mV So.02%+5mV So.02%+10mV So.02%+5mV So.02%+10mV So.02%+5mV So.02%+10mV So.02%+10mV	Readback	Voltage	≤0.03%+10mV							
Ripple Noise Current ≤5mArms Serial/Parallel Voltage ≤0.02%+5mV ≤0.02%+10mV ≤0.02%+10mV ≤0.02%+10mV ≤0.02%+5mV Set Accuracy Current ≤0.1%+30mA 40 Goups of Setups Function Timing power off Timer Range 0.1 s ~ 3600 s 10.1 s <td< td=""><td>Accuracy</td><td>Current</td><td>≤0.1%+5mA</td><td>≤0.1%+8mA</td><td>≤0.1%+5mA</td><td>≤0.1%+5mA</td><td>≤0.1%+8mA</td><td>≤0.1%+5mA</td></td<>	Accuracy	Current	≤0.1%+5mA	≤0.1%+8mA	≤0.1%+5mA	≤0.1%+5mA	≤0.1%+8mA	≤0.1%+5mA		
Current ≤5mArms Serial/Parallel Voltage ≤0.02%+5mV ≤0.02%+5mV ≤0.02%+10mV ≤0.02%+10mV ≤0.02%+10mV ≤0.02%+5mV Set Accuracy Current ≤0.1%+30mA 40 Goups of Setups Timer Range 1 ming power off Resolution 0.1 s 3600 s Work Temp. 0 ~ 40°C Dimension (W* H* D) mm 255*110*380 255*110*380 255*110*480 255*110*480 255*110*480 255*110*480 255*210*575 325*2	Ripple Noise	Voltage	≤2mVrms							
Set Accuracy Current ≤0.1%+30mA Memory Save/Call 40 Goups of Setups Timing power off Range 0.1 s~ 3600 s Resolution 0.1 s Work Temp. 0 ~ 40°C Dimension (W* H* D) mm 255*110*380 255*110*380 255*110*380 255*110*480 255*110*480 255*110*480 255*110*480 255*110*480 255*110*480 255*110*480 255*110*480 255*110*480 255*110*480 255*110*480 255*110*480 255*110*480 255*110*480 255*110*480 255*110*480 255*110*480 255*110*480 255*110*480 255*110*575 325*210*575 325*210*575 325*210*575 325*210*575 325*210*575 325*210*575 325*210*575 325*210*575 325*210*575 325*210*575 325*210*575 <th cols<="" td=""><td>Current</td><td colspan="8">≤5mArms</td></th>		<td>Current</td> <td colspan="8">≤5mArms</td>	Current	≤5mArms						
Memory Save/Call 40 Goups of Setups Timer Range 0.1 s~ 3600 s Resolution 0.1 s Work Temp. 0 ~ 40 °C Dimension (W* H* D) mm 255*110*380 255*110*380 255*110*380 255*110*480 255*110*575 325*210*575 325*210*575 325*210*575 325*210*575 325*210*575 325*210*575 325*210*575 325*210*575 325*210*575 325*210*575 325*210*575 325*210*575 325*210*5	Serial/Parallel	Voltage	≤0.02%+5mV	≤0.02%+10mV	≤0.02%+5mV	≤0.02%+10mV	≤0.02%+10mV	≤0.02%+5mV		
Memory Function Timing power off Timer Range 0.1 s 3600 s Resolution 0.1 s Work Temp. 0 ~ 40 °C Dimension (W* H* D) mm 255*110*380 255*110*380 255*110*480 255*110*480 255*110*480 Carton(W*H*D) mm 325*210*475 325*210*475 325*210*575 325*210*575 325*210*575	Set Accuracy	Current	≤0.1%+30mA							
Function Timing power off Timer Range	Memory	Save/Call	40 Goups of Setups							
Timer Resolution 0.1 s Work Temp. 0 ~ 40 °C Dimension mm 255*110*380 255*110*380 255*110*380 255*110*480 255*110*480 255*110*480 (W* H* D) Carton(W*H*D) mm 325*210*475 325*210*475 325*210*575 325*210*575 325*210*575		Function	Timing power off							
Resolution 0.1 s Work Temp. 0 ~ 40 °C Dimension (W* H* D) mm 255*110*380 255*110*380 255*110*380 255*110*480 255*110*480 255*110*480 Carton(W*H*D) mm 325*210*475 325*210*475 325*210*575 325*210*575 325*210*575	Timer	Range	0.1 s~ 3600 s							
Dimension mm 255*110*380 255*110*380 255*110*380 255*110*480 255*110*480 255*110*480 255*110*480 (W* H* D) mm 325*210*475 325*210*475 325*210*575 325*210*575		Resolution	0.1 s							
(W* H* D) mm 325*210*475 325*210*475 325*210*475 325*210*575 325*210*575 325*210*575	Work Temp.		0 ~ 40℃							
Carton(W*H*D) mm 325*210*475 325*210*475 325*210*475 325*210*575 325*210*575	Dimension	mm	255*110*380	255*110*380	255*110*380	255*110*480	255*110*480	255*110*480		
	(W* H* D)									
N.W. kg 8.5 8.5 11 11 11	Carton(W*H*D)	mm	325*210*475	325*210*475	325*210*475	325*210*575	325*210*575	325*210*575		
	N.W.	kg	8.5	8.5	8.5	11	11	11		
G.W. kg 10 10 10 13 13 13	G.W.	kg	10	10	10	13	13	13		