

FTLP Series Low-power Portable Programmable DC Power Supply

Product Introduction

The FTLP series is a kind of low-power portable programmable DC power supply, with the widest output range, which allows engineers to test more program requirements with just one device. To be exact, the FTLP series provides full power all the way down to 25% of the rated output voltage. Take FTL8005P as an example, with 100W output power, the output voltage and current value can be adjusted within 80V/5A, one single power supply can replace the previous four models of 80V×1.2A/60V×1.6A/32V×3.1A/20V×5A, reducing your repeated investment.

The FTLP series is equipped with RS232 and RS485 as standard interfaces that are essential for system integration, you can also choose USB or LAN interface as your add-on interface. The series supports SCPI and MODBUS-RTU protocol, which is convenient for all kinds of test platform. The FTLP series DC power supply can be widely used in battery chargers, high-voltage ultra-high-speed diodes, electrolytic capacitors, electromechanical control fields, and ATE test systems, etc.

Main features

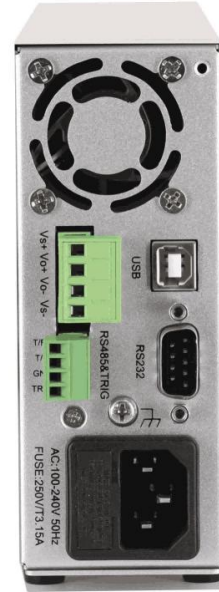
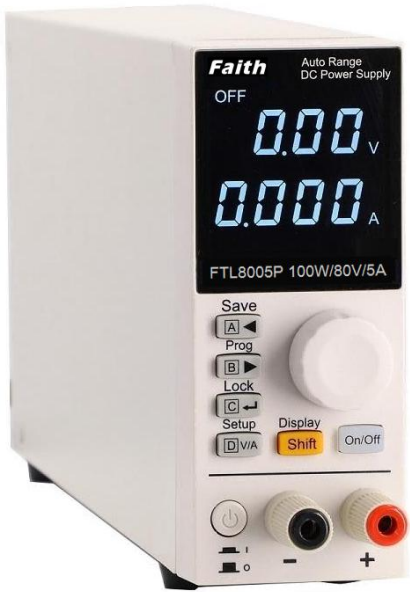
- *Universal 100-240VAC, 47~63Hz input*
- *Totally digital controlled*
- *High resolution at full scale*
- *Low ripple noise*
- *Minimum dimension*
- *High brightness display*
- *CC, CV, CP output modes, automatic crossover between CC and CV modes*
- *Standard RS232 and RS485, optional USB/LAN;
Support SCPI and MODBUS-RTU communication protocol*
- *OVP, OCP, OTP protection functions*
- *Output On/Off control*
- *Remote sense, external trigger*
- *High quality, high price-performance ratio*
- *Preset up to 4×100 groups of output voltage and current*

Model

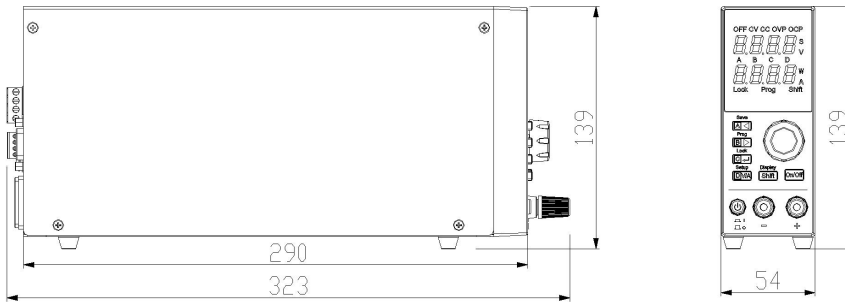
Item	Model	Power	Voltage	Current	Resolution
1	FTL8005P	100W	81V	5.1A	10mV/1mA
2	FTL4016P	180W	40.5V	16.4A	10mV/10mA
3	FTL8008P	180W	81V	8.2A	10mV/1mA
4	FTL16004P	180W	162V	4.1A	100mV/1mA

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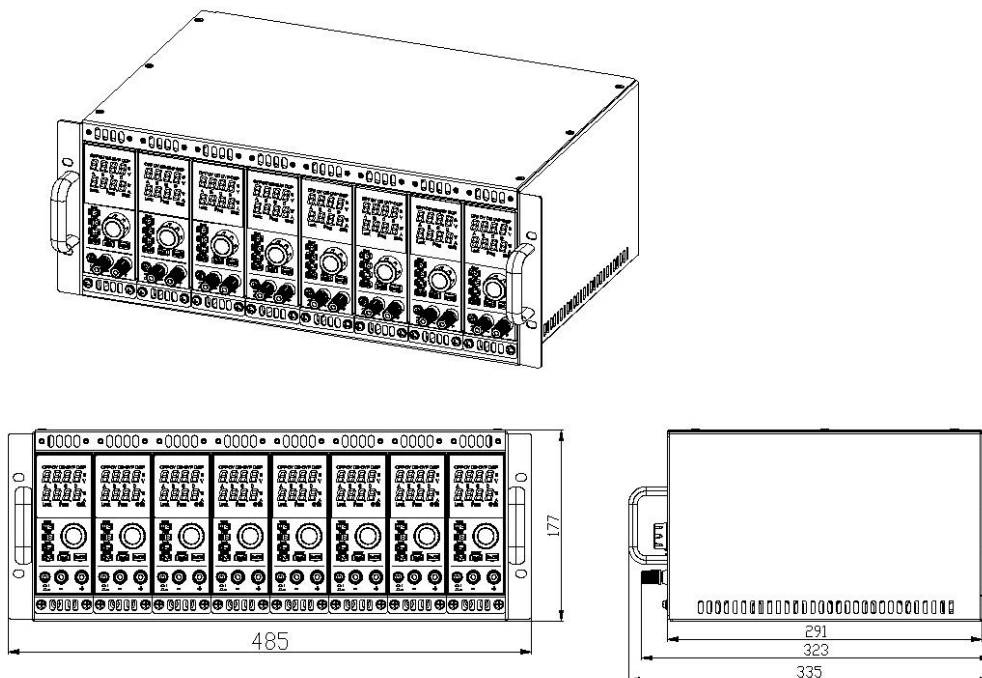
Product photo and dimension



Standalone dimension (Unit: mm)



8 channel chassis dimension (Unit: mm)



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Technical parameters

Model		FTL8005P	FTL8008P	FTL4016P	FTL16004P
Rated Output	Voltage	0.5~81V	0.5~81V	0.5~40.5V	0.5~162V
	Current	0~5.1A	0~8.2A	0~16.4A	0~4.1A
	Power	100W	180W	180W	180W
	OVP	0.5~88V	0.5~88V	0.5~44V	0.5~176V
	OCP	0~5.5A	0~8.8A	0~17.6A	0~4.4A
Load regulation	Voltage	≤20mV	≤30mV	≤40mV	≤20mV
	Current	≤10mA	≤10mA	≤10mA	≤10mA
Line regulation	Voltage	<0.01%+3mV	<0.01%+3mV	<0.01%+3mV	<0.01%+3mV
	Current	<0.1%+5mA	<0.1%+5mA	<0.1%+5mA	<0.1%+5mA
Set accuracy	Voltage	<0.05%+10mV	<0.05%+10mV	<0.05%+10mV	<0.05%+100mV
	Current	<0.2%+2mA	<0.2%+5mA	<0.3%+10mA	<0.2%+5mA
Readback accuracy	Voltage	<0.05%+10mV	<0.05%+10mV	<0.05%+10mV	<0.05%+100mV
	Current	<0.2%+2mA	<0.2%+5mA	<0.3%+10mA	<0.2%+5mA
Ripple	Voltage	<10mV rms	<10mV rms	<6mV rms	<15mV rms
	Current	<8mA rms	<8mA rms	<10mA rms	<10mA rms
Rise time	No load	300ms	300ms	300ms	500ms
	Full load	300ms	300ms	300ms	500ms
Fall time	No load	500ms	500ms	300ms	1s
	Full load	200ms	300ms	100ms	500ms
Protection		OVP, OCP, OTP			
Interface		Standard RS232, RS485 interfaces; support SCPI, MODBUS-RTU; Optional USB/LAN			
Other function		Remote sense; external trigger; key LOC; preset 400 groups V/I data			
AC input	Voltage	100~240Vac			
	Frequency	47~63Hz			
Efficiency	η	80%			
Fuse type		2AT 250V Time-delay fuse			
Power factor	PF	>0.9			
Withstanding		I/P-FG: 2KVAC/min ≤5mA			
Insulation		O/P-FG: 500VDC >100MΩ			
Accessory		Power cord *1 PCS, RS232 cable * 1 PCS, test cable * 1 set			
Dimension	W*H*D	55*140*315(mm)			
Weight	Net	1.8Kg			