

FTLP series

Wide range programmable DC power supply



Summary

The FTLP series is a wide range of portable programmable DC power supplies, with the widest voltage and current utilization rate of similar products, which greatly improves the application range.

Taking FTL8005P as an example, 100W power, the output value is adjustable within 80V/5A, and the change rate of voltage and current is automatically controlled, and the power ratio is as much as four times. One machine can replace the previous 80V×1.2A/60V×1.6A/32V×3.1A/20V×5A four models, reducing your repeated investment.

Provide a variety of communication interfaces, with a wealth of SCPI and MODBUS instructions, convenient to set up a variety of test platforms. Widely used in battery chargers, high voltage ultra-high speed diodes, electrolytic capacitors, electromechanical control fields and ATE test systems.

Characteristic

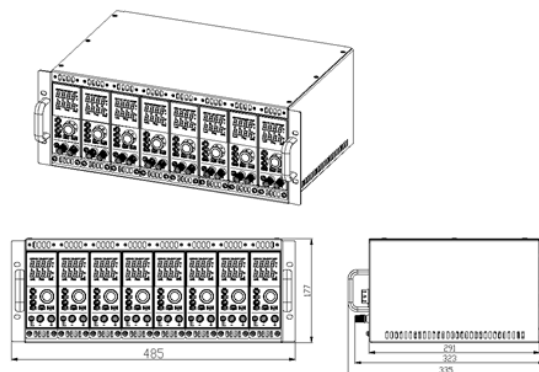
- Full digital control;
- Minimal form factor for easy portability;
- Full scale high resolution;
- Low ripple low noise;
- Ultra high brightness VA screen display;
- Fixed voltage, fixed current and fixed power output;
- Standard RS232 and RS485, USB or LAN can choose one;
- Wide AC input range of 100-240VAC;
- Support SCPI instruction set, MODBUS-RTU protocol;
- High reliability: over voltage/over current/over heat protection function;
- The output has switch control;
- Remote compensation function, external trigger function;
- High quality and cost-effective;
- Multiple sets of output voltage and current can be preset: 4×100 sets;
- Optional LAN or USB interface;
- An 8-way chassis is optional to form an 8-way power supply.



Dimension drawing



Unit dimensions(in mm)



8-way chassis dimensions(in mm)

Ordering information

Model	Power	Voltage	Current	Resolution
FTL8005P	100W	81V	5. 1A	10mV/1mA
FTL4005P	100W	40. 5	4. 1A	10mV/1mA
FTL4016P	180W	40. 5V	16. 4A	10mV/10mA
FTL8008P	180W	81V	8. 2A	10mV/1mA
FTL16004P	180W	162V	4. 1A	100mV/1mA

Specification table

Model		FTL8005P	FTL8008P	FTL4005P	FTL4016P	FTL16004P
Rated output	Voltage	0. 5~81V	0. 5~81V	0. 5~40. 5V	0. 5~40. 5V	0. 5~162V
	Current	0~5. 1A	0~8. 2A	0~5.1A	0~16. 4A	0~4. 1A
	Power	100W	180W	100W	180W	180W
	OVP	0. 5~88V	0. 5~88V	0. 5~44V	0. 5~44V	0. 5~176V
	OCP	0~5. 5A	0~8. 8A	0~5.5A	0~17. 6A	0~4. 4A
Load regulation rate	Voltage	≤20mV	≤30mV	≤40mV	≤40mV	≤20mV
	Current	≤10mA	≤10mA	≤10mA	≤10mA	≤10mA
Power regulation rate	Voltage	<0. 01%+3mV	<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	<0. 1%+5mA
Setting value accuracy	Voltage	<0. 05%+10mV	<0. 05%+10mV	<0. 05%+10mV	<0. 05%+10mV	<0. 05%+100mV
	Current	<0. 2%+2mA	<0. 2%+5mA	<0. 2%+2mA	<0. 3%+10mA	<0. 2%+5mA
Display value accuracy	Voltage	<0. 05%+10mV	<0. 05%+10mV	<0. 05%+10mV	<0. 05%+10mV	<0. 05%+100mV
	Current	<0. 2%+2mA	<0. 2%+5mA	<0. 2%+2mA	<0. 3%+10mA	<0. 2%+5mA
Ripple	Voltage	<10mV rms	<10mV rms	<6mV rms	<6mV rms	<15mV rms
	Current	<8mA rms	<8mA rms	<8mA rms	<10mA rms	<10mA rms
Rise Time	No load	300ms	300ms	300ms	300ms	500ms
	Full load	300ms	300ms	300ms	300ms	500ms
Down time	No load	500ms	500ms	300ms	300ms	1s
	Full load	200ms	300ms	200ms	100ms	500ms
Protection		Over voltage protection, over current protection, over temperature protection				
Interface		Standard RS232, RS485, USB interface, support SCPI instruction set Optional USB interface or LAN network port				
Additional features		Remote compensation, external trigger, keylock LOCK, preset 400 sets of voltage and current data				
AC input	Voltage	100~240Vac				
	Frequency	47~63Hz				
Efficiency	η	80%				
Fuse specifications		2AT 250V slow break type				
Power factor	PF value	>0. 9				
Withstand pressure		I/P-FG: 2KVAC/min ≤5mA				
Insulation resistance		O/P-FG: 500VDC >100MΩ				
Accessories		1 power cord, 1 RS232 cross cable, 1 set of test wires				
Dimension	W*H*D	55*140*315(mm)				
Weight	Net	1. 8Kg				