



Model IT8500

Programmable Electronic Load

IT8500 Series DC programmable Electronic Load

- VFD display
- Voltage range 0~500V
- Working mode: CV/CC/CW/CR
- High resolution of 0.1mA/1mV
- OV/OC/OP/OT protection
- Remote control via USB/RS232/GPIB



Apply range: IT8500 series not only can test the voltage, current, power, but also can test battery, charger and power supply and so on.

IT8500 Series Electronic Load (150W~300W)

parameter		IT8511	IT8512	IT8511B	IT8512B	IT8511C	IT8512C
Output Rating (0 ~ 40 °C)	Voltage	0~120V	0~120V	0~500V	0~500V	0~120V	0~120V
	Current	1mA ~30A	1mA~30A	1mA~15A	1mA~ 15A	1mA~60A	1mA~60A
	Power	150 W	300 W	150 W	300 W	150 W	300 W
Load Regulation	Range	Accuracy	Resolution	Accuracy	Resolution	Accuracy	Resolution
	0~18V	$\pm(0.05\%+0.02\%FS)$	1mV	$\pm(0.05\%+0.02\%FS)$	1mV	$\pm(0.05\%+0.02\%FS)$	1mV
	0~120V / 500V	$\pm(0.05\%+0.025\%FS)$	10mV	$\pm(0.05\%+0.025\%FS)$	10mV	$\pm(0.05\%+0.025\%FS)$	10mV
	0~3A/6A	$\pm(0.1\%+0.1\%FS)$	0.1mA	$\pm(0.1\%+0.1\%FS)$	0.1mA	$\pm(0.1\%+0.2\%FS)$	0.2mA
0~30A / 15A/60A	$\pm(0.1\%+0.15\%FS)$	1mA	$\pm(0.1\%+0.1\%FS)$	1mA	$\pm(0.15\%+0.2\%FS)$	1mA	
CV Mode Regulation	0.1~18V	$\pm(0.05\%+0.02\%FS)$	1mV	$\pm(0.05\%+0.02\%FS)$	1mV	$\pm(0.05\%+0.02\%FS)$	1mV
	0.1~120V/500V	$\pm(0.05\%+0.025\%FS)$	10mV	$\pm(0.05\%+0.025\%FS)$	10mV	$\pm(0.05\%+0.025\%FS)$	10mV
CC Mode Regulation	0~3A/6A	$\pm(0.05\%+0.1\%FS)$	0.1mA	$\pm(0.05\%+0.1\%FS)$	0.1mA	$\pm(0.1\%+0.1\%FS)$	0.1mA
	0~30A / 15A/60A	$\pm(0.1\%+0.1\%FS)$	1mA	$\pm(0.1\%+0.1\%FS)$	1mA	$\pm(0.15\%+0.25\%FS)$	1mA
CR Mode Regulation	0.1~10Ω	$\pm(1\%+0.3\%FS)$	0.001Ω	$\pm(1\%+0.3\%FS)$	0.001Ω	$\pm(1.5\%+0.2\%FS)$	0.001Ω
	10~99Ω	$\pm(1\%+0.3\%FS)$	0.01Ω	$\pm(1\%+0.3\%FS)$	0.01Ω	$\pm(1\%+0.3\%FS)$	0.01Ω
	100~999Ω	$\pm(1\%+0.3\%FS)$	0.1Ω	$\pm(1\%+0.3\%FS)$	0.1Ω	$\pm(1\%+0.3\%FS)$	0.1Ω
	1K~4KΩ	$\pm(1\%+0.8\%FS)$	1Ω	$\pm(1\%+0.8\%FS)$	1Ω	$\pm(1\%+0.1\%FS)$	1Ω
CW Mode Regulation	0~100W	$\pm(1\%+0.1\%FS)$	1mW	$\pm(1\%+0.1\%FS)$	1mW	$\pm(1\%+0.1\%FS)$	1mW
	100~300W	$\pm(1\%+0.1\%FS)$	10mW	$\pm(1\%+0.1\%FS)$	10mW	$\pm(0.1\%+0.1\%FS)$	10mW
Current Measurement	0~3A/6A	$\pm(0.1\% + 0.1\%FS)$	0.1mA	$\pm(0.1\% + 0.1\%FS)$	0.1mA	$\pm(0.1\% + 0.2\%FS)$	0.2mA
	0~30A / 15A/60A	$\pm(0.2\%+0.15\%FS)$	1mA	$\pm(0.2\%+0.3\%FS)$	1mA	$\pm(0.2\%+0.5\%FS)$	2mA
Voltage Measurement	0~18V	$\pm(0.02\% + 0.02\%FS)$	1mV	$\pm(0.02\% + 0.02\%FS)$	1mV	$\pm(0.02\% + 0.02\%FS)$	1mV
	0~120V/500V	$\pm(0.02\% + 0.025\%FS)$	10mV	$\pm(0.02\% + 0.025\%FS)$	10mV	$\pm(0.02\% + 0.025\%FS)$	10mV
Power	0~100W	$\pm(1\%+0.1\%FS)$	1mW	$\pm(1\%+0.1\%FS)$	1mW	$\pm(1\%+0.1\%FS)$	1mW

Measurement	100~300W	$\pm(1\%+0.1\%FS)$	10mW	$\pm(1\%+0.1\%FS)$	10mW	$\pm(1\%+0.1\%FS)$	10mW
Battery Testing function	Input=0.8~120V Max measurement capacity= 999A/H Resolution =10mA Timer range=1~60000sec						
Transition Mode	Range of Frequency 0.1Hz~1kHz Frequency error rate < 0.5%						

IT8500 Series Electronic Load (600W~1200W)

parameter		IT8513C	IT8514C
Output Rating (0 ~ 40 °C)	Voltage	0~120v	0~120v
	Current	1mA~120A	1mA~240A
	Power	600W	1200W
Load Regulation	Range	Accuracy	Resolution
	0~120V	$\pm(0.05\%+0.025\%FS)$	10mV
	0~12/24A	$\pm(0.1\%+0.1\%FS)$	1mA
	0~120/240A	$\pm(0.2\%+0.15\%FS)$	10mA
CV Mode Regulation	0.1~18V	$\pm(0.05\%+0.02\%FS)$	1mV
	0.1~120V	$\pm(0.05\%+0.025\%FS)$	10mV
CC Mode Regulation	0~12/24A	$\pm(0.1\%+0.1\%FS)$	1mA
	0~120/240A	$\pm(0.2\%+0.15\%FS)$	10mA
CR Mode Regulation	0.1~10 Ω	$\pm(1\%+0.3\%FS)$	0.001 Ω
	10~99 Ω	$\pm(1\%+0.3\%FS)$	0.01 Ω
	100~999 Ω	$\pm(1\%+0.3\%FS)$	0.1 Ω
	1K~4K Ω	$\pm(1\%+0.8\%FS)$	1 Ω
CW Mode	0~100W	$\pm(1\%+0.1\%FS)$	1mW
	100~1200W	$\pm(1\%+0.1\%FS)$	100mW
Current Measurement	0~12/24A	$\pm(0.1\%+0.1\%FS)$	1mA
	0~120/240A	$\pm(0.2\%+0.15\%FS)$	10mA
Voltage Measurement	0~18V	$\pm(0.02\%+0.025\%FS)$	1mV
	0~120V	$\pm(0.02\%+0.025\%FS)$	10mV
Power Measurement	0~100W	$\pm(1\%+0.1\%FS)$	1mW
	100~1200W	$\pm(1\%+0.1\%FS)$	100mW
Battery testing function	Input=0.8~120V Max measurement capacity=999A/H Resolution=10mA Timer range=1~60000sec		
Transition Mode	Range of Frequency 0.1Hz~1kHz frequency error rate < 0.5%		

ITECH ELECTRONIC CO., LTD www.itech.sh

Tel: 86-025-52415358, 52415099 Fax: 86-025-52415268, 52405299