

# PROGRAMMABLE DC ELECTRONIC LOAD

600W~1200W

## BRIEF INTRODUCTION

- HP8XXX Series DC Electronic Load is high precision programmable DC electronic load controlled by high performance microprocessor. Adopt 3.5-inch TFT true color LCD display, Chinese and English menu.
- There are 4 basic working modes (CC/CV/CR/CW) and 10 functional modes.
- With comprehensive protection, overheat protection, overcurrent protection, over power protection, overvoltage protection, loop oscillation protection. Built-in interface, RS232, LAN, USB and analog interfaces for remote control and data acquisition and analysis

## FEATURES

- CV/CC/CR/CW Mode
- LED mode, real simulating LED loading
- Battery test function, capacity test
- Up to 50KHz dynamic loading mode
- Test resolution up to 0.1mV 0.01mA
- Voltage and current ripple real-time test
- Transient waveform capture (2uS)
- TIMING test function
- Load regulation test function
- Over current protection (OCP mode)
- Fastest current rate up to 3A/uS
- Standard RS232/485, LAN, USB communication interface
- Support SCPI, MODBUS communication protocol



## APPLICATION

Solar power charger  
Switching power supply  
LED driver  
Cell phone battery

UPS  
Vehicle electronics  
Power battery  
Fuse

Application	Test Product	Test Content
Vehicle electronics	Radio, car heated seat	Current
	Car door and window switch	Stability and aging
	Car MCU control box	Stability and aging
Battery	Cell phone battery	Discharge test
	Car battery	Discharge test
	Solar battery	Discharge test
	Mobile power	Discharge test
Power supply	Power module, power supply	Performance Testing
	CV, CC power supply	Performance Testing
	Switching power supply	Performance Testing
	Medical power supply	Performance Testing
	Military, scientific research power supply	Performance Testing
	UPS	Performance Testing
LED	Various types of chargers	Performance Testing
	LED Driver	Stability testing
Power electronics	MOSFET, IGBT	Performance Testing
	Capacitor, rectifier	Performance Testing
	PFC module	Performance Testing
Fuse	Various types of fuses	Fuse time test

## TEST MODE

### Normal mode



### Extended mode



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### SPECIFICATION

M model	HP8601		HP8601B		HP8122		HP8122B	
Input voltage	15V	150V	50V	500V	15V	150V	50V	500V
Input current	12A	120A	3A	30A	24A	240A	6A	60A
Input power	600W				1200W			
Minimum operating voltage	1.5V@120A		4V@30A		1.5V@240A		4V@60A	
Minimum full -range current climb time	25us		25us		25us		25us	
CV Mode								
Range	15V	150V	50V	500V	15V	150V	50V	500V
Resolution	0.2mV	2mV	0.7mV	7mV	0.2mV	2mV	0.7mV	7mV
Accuracy	±( 0.05%+0.025%FS)							
CC Mode								
Range	12A	120A	3A	30A	24A	240A	6A	60A
Resolution	0.1mA	1mA	0.04mA	0.4mA	0.3mA	3mA	0.09mA	0.9mA
Accuracy	±( 0.05%+0.05%FS)				±( 0.1%+0.1%FS)		±( 0.05%+0.05%FS)	
CR Mode								
Range	0.008Ω~13k Ω		0.1Ω~167k Ω		0.004Ω~6k Ω		0.06Ω~83k Ω	
Resolution	16Bits							
Accuracy	±0.1%							
CW Mode								
Range	600W				1200W			
Resolution	16Bits				16Bits			
Accuracy	± ( 0.1%+0.1%FS )							
Dynamic Mode								
Ta & Tb	10us~50s							
Minimum resolution	10us							
Maximum rise/fall slope	3A/us		3A/us		3A/us		3A/us	
Voltage Readback Value								
Range	15V	150V	50V	500V	15V	150V	50V	500V
Resolution	0.1mV	1mV	0.3mV	3mV	0.1mV	1mV	0.3mV	3mV
Accuracy	±( 0.025%+0.025%FS)							
Current Readback Value								
Range	12A	120A	3A	30A	24A	240A	6A	60A
Resolution	0.09mA	0.9mA	0.02mA	0.2mA	0.1mA	1mA	0.04mA	0.4mA
Accuracy	±( 0.05%+0.05%FS)		±( 0.05%+0.05%FS)					
Ripple Readback Value								
Range ( U/I)	150V/120A		500V/30A		150V/240A		500V/60A	
Bandwidth	10Hz~250kHz							
Accuracy	±0.1%							
Protection Range								
Overpower protection bandwidth	630W		630W		1260W		1260W	
Overcurrent protection	126A		32A		252A		63A	
Overvoltage protection	158V		525V		158V		525V	
Over temperature protection	≈85℃							
Dimensions								
Size ( L*W*H)	483mm*428mm* 89.5mm							
Net Weight ( Kg )	15 Kg				20 Kg			

### ACCESSORY



RS232 communication cable



AC power cord



External trigger connector