

HIGH POWER DC ELECTRONIC LOAD

8000W~20kW

BRIEF INTRODUCTION

HP8XXX series electronic load has 4 test modes: CC, CV, CR, and CW. It also has multiple function modes: dynamic test function, current protection test mode, load effect mode, battery test mode, dynamic scan mode, timing test mode, voltage protect test mode, LIST mode, and AUTO mode. At the same time, it has comprehensive protection functions, overheat protection, overcurrent protection, over power protection, overvoltage protection ring and road oscillation protection.

FEATURES

- 500kHz high-speed voltage and current sampling rate
- High precision voltage and current measurement
- Fast loop response speed and current slew rate
- Multiple protection function design
- Equipped with remote 4-wire compensation
- Current ripple and voltage ripple display in real time
- Modular design for easy installation and maintenance
- Power module self-test, fast speed locate fault

APPLICATION

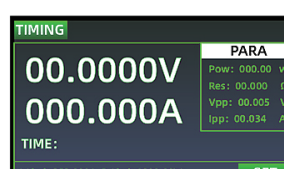
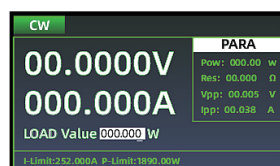
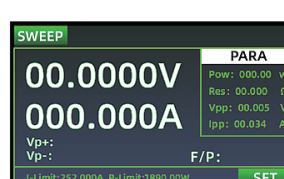
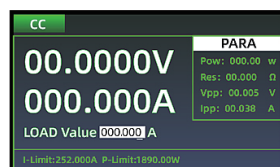
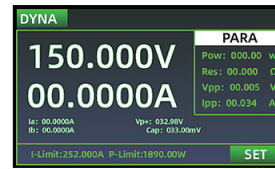
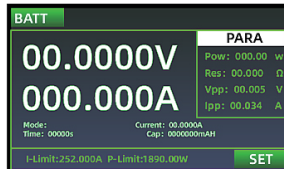
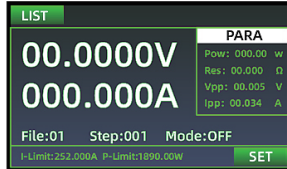
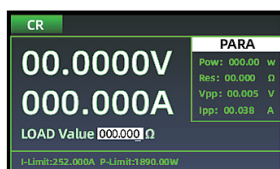
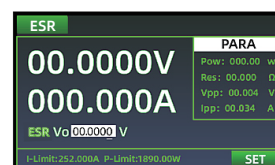
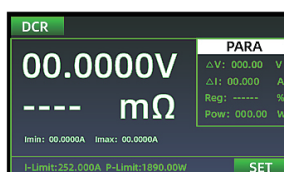
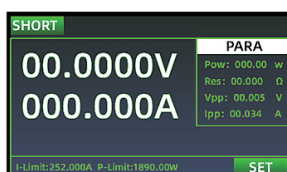
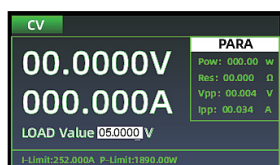
Server power
Car charge
Energy storage system
Military aerospace

Industrial motor
Battery pack
High power UPS
DC charging pile



TEST MODE

Normal mode



PROGRAMMABLE DC ELECTRONIC LOAD

8000W~20kW

SPECIFICATION

Model	HP8 802 -M		HP8802B -M		HP8802C -M	
Input voltage	15V	150V	50V	500V	15V	150V
Input current	24A	240A	12A	120A	50A	500A
Input power	8000W					
Minimum operating voltage	1.5V@240A		2V@120A		1.5V@500A	
Minimum full -range current climb time	25us		25us		25us	
CV Mode						
Range	15V	150V	50V	500V	15V	150V
Resolution	0.2mV	2mV	0.7mV	7mV	0.2mV	2mV
Accuracy	±(0.05%+0.05%FS)					
CC Mode						
Range	24A	240A	12A	120A	50A	500A
Resolution	0.3mA	3mA	0.1mA	1mA	0.7mA	7mA
Accuracy	±(0.05%+0.05%FS)					
CR Mode						
Range	0.02Ω~6k Ω		0.08Ω~42k Ω		0.006Ω~3k Ω	
Resolution	16Bits					
Accuracy	±0.2%					
CW Mode						
Range	8000W					
Resolution	16Bits					
Accuracy	± (0.2%+0.2%FS)					
Dynamic Mode						
Ta & Tb	10us~50s					
Minimum resolution	10us					
Maximum rise/fall slope	3A/us		3A/us		3A/us	
Voltage Readback Value						
Range	15V	150V	50V	500V	15V	150V
Resolution	0.1mV	1mV	0.3mV	3mV	0.1mV	1mV
Accuracy	±(0.025%+0.025%FS)					
Current Readback Value						
Range	24A	240A	12A	120A	50A	500A
Resolution	0.1mA	1mA	0.09mA	0.9mA	0.3mA	3mA
Accuracy	±(0.05%+0.05%FS)					
Ripple Readback Value						
Range (U/I)	150V/240A		500V/120A		150V/500A	
Bandwidth	10Hz~250kHz					
Accuracy	±1%					
Protection Range						
Overpower protection bandwidth	8400W		8400W		8400W	
Overcurrent protection	252A		126A		525A	
Overvoltage protection	158V		525V		158V	
Over temperature protection	≒85℃					
Dimensions						
Size (L*W*H)	720.5mm*483mm*355mm					
Net Weight (Kg)	80 Kg					

ACCESSORY



RS232 communication cable



AC power cord



External trigger connector

PROGRAMMABLE DC ELECTRONIC LOAD

8000W~20kW

SPECIFICATION

Model	HP8103B -M		HP8103C -M		HP8123B -M		HP8123C -M	
Input voltage	50V	500V	15V	150V	50V	500V	15V	150V
Input current	24A	240A	50A	500A	24A	240A	50A	500A
Input power	10kW				12kW			
Minimum operating voltage	1.5V@240A		1.5V@500A		2.5V@240A		1.5V@500A	
Minimum full -range current climb time	25us		25us		25us		25us	
CV Mode								
Range	50V	500V	15V	150V	50V	500V	15V	150V
Resolution	0.7mV	7mV	0.2mV	2mV	0.7mV	7mV	0.2mV	2mV
Accuracy	±(0.05%+0.05%FS)							
CC Mode								
Range	24A	240A	50A	500A	24A	240A	50A	500A
Resolution	0.3mA	3mA	0.7mA	7mA	0.3mA	3mA	0.7mA	7mA
Accuracy	±(0.1%+0.1%FS)							
CR Mode								
Range	0.04Ω~21k Ω		0.008Ω~3k Ω		0.04Ω~21k Ω		0.01Ω~3k Ω	
Resolution	16Bits							
Accuracy	±0.2%							
CW Mode								
Range	10kW				12kW			
Resolution	16Bits							
Accuracy	± (0.2%+0.25%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	50V	500V	50V	500V	50V	500V	15V	150V
Resolution	0.3mV	3mV	0.1mV	1mV	0.3mV	3mV	0.1mV	1mV
Accuracy	±(0.025%+0.025%FS)							
Current Readback Value								
Range	24A	240A	50A	500A	24A	240A	50A	500A
Resolution	0.1mA	1mA	0.3mA	3mA	0.1mA	1mA	0.3mA	3mA
Accuracy	±(0.05%+0.05%FS)							
Ripple Readback Value								
Range (U/I)	500V/240A		150V/500A		500V/240A		150V/500A	
Bandwidth	10Hz~250kHz							
Accuracy	±1%							
Protection Range								
Overpower protection bandwidth	10500W				12600W			
Overcurrent protection	252A		525A		252A		525A	
Overvoltage protection	525V		158V		525V		158V	
Over temperature protection	≒85℃							
Dimensions								
Size (L*W*H)	720.5mm*483mm*355mm							
Net Weight (Kg)	88 Kg				96 Kg			

ACCESSORY



RS232 communication cable



AC power cord



External trigger connector



CKT Changzhou
ChuangKai Electronic Co.Ltd

PROGRAMMABLE DC ELECTRONIC LOAD

8000W~20kW

SPECIFICATION

Model	HP8143B -M		HP8143C -M		HP8163B -M		HP8163C -M	
Input voltage	50V	500V	15V	150V	50V	500V	15V	150V
Input current	24A	240A	50A	500A	24A	240A	50A	500A
Input power	14kW				16kW			
Minimum operating voltage	2V@240A		1.5V@500A		2.5V@240A		1.5V@500A	
Minimum full -range current climb time	25us		25us		25us		25us	
CV Mode								
Range	50V	500V	15V	150V	50V	500V	15V	150V
Resolution	0.7mV	7mV	0.2mV	2mV	0.7mV	7mV	0.2mV	2mV
Accuracy	±(0.05%+0.05%FS)							
CC Mode								
Range	24A	240A	50A	500A	24A	240A	50A	500A
Resolution	0.3mA	3mA	0.7mA	7mA	0.3mA	3mA	0.7mA	7mA
Accuracy	±(0.1%+0.1%FS)							
CR Mode								
Range	0.05Ω~21k Ω		0.01Ω~3k Ω		0.06Ω~21 k Ω		0.01Ω~3k Ω	
Resolution	16Bits							
Accuracy	±0.2%							
CW Mode								
Range	14kW				12kW			
Resolution	16Bits							
Accuracy	± (0.2%+0.2%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	50V	500V	50V	500V	50V	500V	15V	150V
Resolution	0.3mV	3mV	0.1mV	1mV	0.3mV	3mV	0.1mV	1mV
Accuracy	±(0.025%+0.025%FS)							
Current Readback Value								
Range	24A	240A	50A	500A	24A	240A	50A	500A
Resolution	0.1mA	1mA	0.3mA	3mA	0.1mA	1mA	0.3mA	3mA
Accuracy	±(0.05%+0.05%FS)							
Ripple Readback Value								
Range (U/I)	500V/240A		150V/500A		500V/240A		150V/500A	
Bandwidth	10Hz~250kHz							
Accuracy	±1%							
Protection Range								
Overpower protection bandwidth	14700W				16800W			
Overcurrent protection	252A		525A		252A		525A	
Overvoltage protection	525V		158V		525V		158V	
Over temperature protection	≒85℃							
Dimensions								
Size (L*W*H)	720.5mm*483mm*530mm							
Net Weight (Kg)	120Kg				128Kg			

ACCESSORY



RS232 communication cable



AC power cord



External trigger connector



CKT Changzhou
ChuangKai Electronic Co.Ltd

PROGRAMMABLE DC ELECTRONIC LOAD

8000W~20kW

SPECIFICATION

Model	HP8 183B -M		HP8183 C-M		HP 820 3B -M		HP8203 C-M	
Input voltage	50V	500V	15V	150V	50V	500V	15V	150V
Input current	24A	240A	50A	500A	24A	240A	50A	500A
Input power	18kW				20kW			
Minimum operating voltage	2V@240A		1.5V@500A		2V@240A		1.5V@500A	
Minimum full -range current climb time	25us		25us		25us		25us	
CV Mode								
Range	50V	500V	15V	150V	50V	500V	15V	150V
Resolution	0.7mV	7mV	0.2mV	2mV	0.7mV	7mV	0.2mV	2mV
Accuracy	±(0.05%+0.05%FS)							
CC Mode								
Range	24A	240A	50A	500A	24A	240A	50A	500A
Resolution	0.3mA	3mA	0.7mA	7mA	0.3mA	3mA	0.7mA	7mA
Accuracy	±(0.1%+0.1%FS)							
CR Mode								
Range	0.06Ω~21k Ω		0.01Ω~3k Ω		0.07Ω~21k Ω		0.02Ω~3k Ω	
Resolution	16Bits							
Accuracy	±0.2%							
CW Mode								
Range	18kW				20kW			
Resolution	16Bits							
Accuracy	± (0.2%+0.2%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	50V	500V	50V	500V	50V	500V	15V	150V
Resolution	0.3mV	3mV	0.1mV	1mV	0.3mV	3mV	0.1mV	1mV
Accuracy	±(0.025%+0.025%FS)							
Current Readback Value								
Range	24A	240A	50A	500A	24A	240A	50A	500A
Resolution	0.1mA	1mA	0.3mA	3mA	0.1mA	1mA	0.3mA	3mA
Accuracy	±(0.05%+0.05%FS)							
Ripple Readback Value								
Range (U/I)	500V/240A		150V/500A		500V/240A		150V/500A	
Bandwidth	10Hz~250kHz							
Accuracy	±1%							
Protection Range								
Overpower protection bandwidth	18900W				21000W			
Overcurrent protection	252A		525A		252A		525A	
Overvoltage protection	525V		158V		525V		158V	
Over temperature protection	≒85℃							
Dimensions								
Size (L*W*H)	720.5mm*483mm*530mm 720.5mm*483mm*705mm							
Net Weight (Kg)	136 Kg				150 Kg			

ACCESSORY



RS232 communication cable

AC power cord

External trigger connector