



## Programmable DC Electronic Load —3.2kW-6kW series

### OVERVIEW

HT8XXX load is a precision programmable DC electronic load controlled by a high-performance microprocessor. Uses 3.5-inch TFT true color LCD display with Chinese and English menu.

Modular design, high energy density, easy to maintenance and expand the power range.

Self-diagnosis function, monitoring every power unit.

Rich interfaces configuration. LAN, USB and analog interfaces to meet your versatile solution and testing needs.

### Test function

4 basic working modes CC/CV/CR/CW and supports multiple extended function modes: Dynamic test mode (DYNA)

Voltage protection test mode

EFFECT mode

Battery test function

High-speed dynamic frequency conversion scanning function (SWEEP)

AUTO mode

Timing test mode

Current protection test mode

LIST function

With comprehensive protection, over-heat protection, over-current protection, over-power protection, over-voltage protection, loop oscillation protection

### FEATURES

- 500kHz high speed voltage, current sampling rate
- High precision voltage and current measurement
- Fast loop response speed and current slew rate Programmable single step up to 10 $\mu$ s
- Equipped with remote four-wire compensation
- Unique real-time display of current ripple and voltage ripple Real-time display of load power and resistance

## SPECIFICATION

Model	HT8402		HT8402B		HT8402C	
Input voltage	15V	150V	50V	500V	15V	150V
Input current	24A	240A	12A	120A	50A	500A
Input power	4000W					
Min.operation voltage	1V@240A		2.5V@120A		1.5V@500A	
Min.risetime@FScurrent	100us		100us		100us	
CV mode						
Range	15V	150V	50V	500V	15V	150V
Resolution	0.2mV	2mV	0.7mV	7mV	0.2mV	2mV
Accuracy	±(0.05%+0.025%FS)					
CC mode						
Range	24A	240A	12A	120A	50A	500A
Resolution	0.3mA	3mA	0.1mA	1mA	0.7mA	7mA
Accuracy	±(0.1%+0.1%FS)					
CR mode						
Range	0.1Ω~7.5kΩ		0.1Ω~7.5kΩ		0.1Ω~7.5kΩ	
Resolution	16Bit					
Accuracy	±0.1%					
CW mode						
Range	4000W					
Resolution	16Bits					
Accuracy	± (0.2%+0.2%FS)					
Dynamic mode						
Ta&Tb	10us~50s					
Min.resolution	10us					
Min. rise time	2.5A/us		1A/us		5A/us	
Read-back voltage						
Range	15V	150V	50V	500V	15V	150V
Resolution	0.1mV	1mV	0.3mV	3mV	0.1mV	1mV
Accuracy	±(0.025%+0.025%FS)					
Read-back current						
Range	24A	240A	12A	120A	50A	500A
Resolution	0.1mA	1mA	0.09mA	0.9mA	0.3mA	3mA
Accuracy	±(0.05%+0.05%FS)					
Read-back Ripple						
Range(R/I)	150V/240A		500V/120A		150V/500A	
bandwidth	10Hz~250kHz					
Accuracy	±1%					
Protection range						
Over-powerprotection	4200W		4200W		4200W	
Over-currentprotection	252A		126A		525A	
Over-voltageprotection	158V		525V		158V	
Over-temperatureprotection	≈85°C					
Specification						
Dimension (D*W*H)	624mm*483mm*176mm					
Gross Weight	39Kg					

## SPECIFICATION

Model	HT8502		HT8502B		HT8502C	
Input voltage	15V	150V	50V	500V	15V	150V
Input current	24A	240A	12A	120A	50A	500A
Input power	5000W					
Min.operation voltage	1V@240A		2.5V@120A		1.5V@500A	
Min.risetime@FScurrent	100us		100us		100us	
CV mode						
Range	15V	150V	50V	500V	15V	150V
Resolution	0.2mV	2mV	0.7mV	7mV	0.2mV	2mV
Accuracy	±(0.025%+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	0.1Ω~7.5kΩ		0.1Ω~7.5kΩ		0.1Ω~7.5kΩ	
Resolution	16Bits					
Accuracy	±0.1%					
CW mode						
Range	5000W					
Resolution	16Bits					
Accuracy	± (0.2%+0.2%FS)					
Dynamic mode						
Ta&Tb	10us~50s					
Min.resolution	10us					
Min. rise time	2.5A/us		1A/us		5A/us	
Read-back voltage						
Range	15V	150V	50V	500V	15V	150V
Resolution	0.1mV	1mV	0.3mV	3mV	0.1mV	1mV
Accuracy	±(0.025%+0.025%FS)					
Read-back current						
Range	24A	240A	12A	120A	50A	500A
Resolution	0.1mA	1mA	0.09mA	0.9mA	0.3mA	3mA
Accuracy	±(0.05%+0.05%FS)					
Read-back Ripple						
Range(R/I)	150V/240A		500V/120A		150V/500A	
bandwidth	10Hz~250kHz					
Accuracy	±1%					
Protection range						
Over-powerprotection	6250W		5250W		5250W	
Over-currentprotection	252A		126A		525A	
Over-voltageprotection	158V		525V		158V	
Over-temperatureprotection	≒85°C					
Specification						
Dimension (D*W*H)	624mm*483mm*176mm					
Gross Weight	44Kg					

## SPECIFICATION

Model	HT8602		HT8602B		HT8602C	
Input voltage	15V	150V	50V	500V	15V	150V
Input current	24A	240A	12A	120A	50A	500A
Input power	6000W					
Min.operation voltage	1.5V@240A		2.5V@120A		1.5V@500A	
Min rise time@FS current	100us		100us		100us	
CV mode						
Range	15V	150V	50V	500V	15V	150V
Resolution	0.2mV	2mV	0.7mV	7mV	0.2mV	2mV
Accuracy	±(0.025%+0.05%FS)					
CC mode						
Range	24A	240A	12A	120A	50A	500A
Resolution	0.3mA	3mA	0.1mA	1mA	0.7mA	7mA
Accuracy	±(0.1%+0.1%FS)					
CR mode						
Range	0.1Ω~7.5kΩ		0.1Ω~7.5kΩ		0.1Ω~7.5kΩ	
Resolution	16Bits					
Accuracy	±0.1%					
CW mode						
Range	6000W					
Resolution	16Bits					
Accuracy	± (0.2%+0.2%FS)					
Dynamic mode						
Ta&Tb	10us~50s					
Min.resolution	10us					
Min. rise time	2.5A/us		1A/us		5A/us	
Read-back voltage						
Range	15V	150V	50V	500V	15V	150V
Resolution	0.1mV	1mV	0.3mV	3mV	0.1mV	1mV
Accuracy	±(0.025%+0.025%FS)					
Read-back current						
Range	24A	240A	12A	120A	50A	500A
Resolution	0.1mA	1mA	0.09mA	0.9mA	0.3mA	3mA
Accuracy	±(0.05%+0.05%FS)					
Read-back Ripple						
Range(R/I)	150V/240A		500V/120A		150V/500A	
bandwidth	10Hz~250kHz					
Accuracy	±1%					
Protection range						
Over-power protection	6300W		6300W		6300W	
Over-current protection	252A		126A		525A	
Over-voltage protection	158V		525V		158V	
Over-temperature protection	≅85°C					
Specification						
Dimension (D*W*H)	624mm*483mm*176mm					
Gross Weight	45Kg					