



ET SYSTEM®

Programmable DC Electronic DCH Series 1800W-2.4kW



OVERVIEW

DCH load is a precision programmable DC electronic load controlled by a high-performance microprocessor. It uses 3.5-inch TFT true color LCD display with Chinese and English menu. Offers 4 basic working modes (CC/CV/CR/CW) and 10 functional modes. With comprehensive protection, over-heat protection, over-current protection, over-power protection, over-voltage protection, loop oscillation protection. DCH series E-load supports RS232, LAN, USB and analog interfaces to meet your versatile solution and testing needs.

Test function

4 basic working modes CC/CV/CR/CW and 10 functional modes multiple extended function modes:

Dynamic test mode (DYNA); OCP mode; EFFECT mode; Professional battery test function; High-speed dynamic frequency conversion scanning function (SWEEP); AUTO mode; Timing test mode.

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 μ 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

APPLICATION



Switching power supply



LED power supply



Cell phone battery charger



Cell phone charger



UPS battery



Vehicle electronics



Power battery pack



Fuse



ETS SYSTEM®

SPECIFICATION

Model	DCH8182		DCH8182B		DCH8242		DCH8242B	
Input voltage	15V	150V	50V	500V	15V	150V	50V	500V
Input current	24A	240A	12A	120A	24A	240A	12A	120A
Input power	1800W				2400W			
Min.operation voltage	1V@240A		5.5V@120A		1.5V@240A		4.5V@120A	
Minrise time@FS current	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	±(0.03%+0.02%FS)							
CC mode								
Range	24A	240A	12A	120A	24A	240A	12A	120A
Resolution	0.3mA	3mA	0.1mA	1mA	0.3mA	3mA	0.1mA	1mA
Accuracy	±(0.03%+0.02%FS)							
CR mode								
Range	0.006Ω~6kΩ		0.025Ω~42kΩ		0.008Ω~6kΩ		0.03Ω~42kΩ	
Resolution	16Bits							
Accuracy	±0.1%							
CW mode								
Range	1800W				2400W			
Resolution	16Bits							
Accuracy	± (0.1%+0.1%FS)							
Dynamic mode								
Ta & Tb	10us~50s							
Min.resolution	10us							
Min. rise time	3A/us		3A/us		3A/us		3A/us	
Read-back voltage								
Range	15V	150V	50V	500V	15V	150V	50V	500V
Resolution	0.1mV	1mV	0.3mV	3mV	0.1mV	1mV	0.3mV	3mV
Accuracy	±(0.015%+0.01%FS)							
Read-back current								
Range	24A	240A	12A	120A	24A	240A	12A	120A
Resolution	0.1mA	1mA	0.09mA	0.9mA	0.1mA	1mA	0.09mA	0.9mA
Accuracy	±(0.015%+0.05%FS)		±(0.03%+0.02%FS)					
Read-back Ripple								
Range(R/I)	500V/120A							
bandwidth	10Hz~250kHz							
Accuracy	±1%							
Protection range								
Over-power protection	1890W		1890W		2420W		2520W	
Over-current protection	252A		126A		252A		126A	
Over-voltage protection	158V		525V		158V		525V	
Over-temperature protection	≈85°C							
Specification								
Dimension (L*W*D)	464.4mm*463.6mm*173mm							
Gross Weight	19.5Kg							