



GPS-

# 8512C

## A valuable tool for professionals in the electronics and power supply industries.

The GPS-8512C DC Electronic Load is a high-precision testing device designed for evaluating a wide range of DC power sources such as batteries, power supplies, and DC converters. It supports multiple operating modes, including Constant Current (CC), Constant Voltage (CV), Constant Power (CP), and Constant Resistance (CR), with a maximum power capacity of 300W, voltage range of 0-300V, and current range of 0-30A. It includes remote sensing capability, a 3.5" LCD, and comprehensive protection features such as overvoltage, overcurrent, and overtemperature protection.

For detailed technical specifications, the device provides accurate voltage and current measurements with high resolution, offering both local and remote sensing options. The RS232, USB, and optional RS485 interfaces support automated test setups, ensuring flexibility for complex testing environments.

Its safety features and user-friendly interface make it an excellent choice for both laboratory and industrial applications.



### Key Features

- 300W, 300V, 30A input rating
- CC, CV, CP and CR load modes
- 6 measurement modes: NRM, TRN, SEQ, ATF, BAT and SHT
- High accuracy
- RS232C, USB and handler interfaces
- SCPI programming language
- Battery testing function
- VFD full colour screen

### Application

- Power Supply Testing
- Battery Testing
- DC-DC Converter Testing:
- R&D and Prototyping
- Production Line Testing

[www.gpslimited.com/8512C](http://www.gpslimited.com/8512C)  
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## Technical Specifications

Model	GPS-8512C			
Input Rating	300W / 300V / 30A			
Constant Current mode (CC)	Range: 0 to 3A		Range: 0 to 30A	
	Resolution: 0.0001A	Accuracy: 0.1%+0.1%FS	Resolution: 0.001A	Accuracy: 0.2%+0.1%FS
Constant Voltage mode (CV)	Range: 0 to 18V		Range: 0 to 300V	
	Resolution: 0.001V	Accuracy: 0.05%+0.02%FS	Resolution: 0.01V	Accuracy: 0.0%+0.025%FS
Constant Power mode (CP)	Range: 0 to 100W		Range: 100 to 300W	
	Resolution: 0.001W	Accuracy: 1%+0.1%FS	Resolution: 0.01W	Accuracy: 1%+0.1%FS
Constant Resistance mode (CR)	Range: 0.1 to 99Ω		Range: 100 to 4KΩ	
	Resolution: 0.01Ω	Accuracy: 1%+0.3%FS	Resolution: 1Ω	Accuracy: 1%+0.8%FS
Short-circuit test	Short Circuit Current		30A	
	Internal Resistance		40mΩ	
Battery test	Capacity		999.99AH	
	Discharge Time		999H	
Display Parameters	Voltage, current, power, resistance, battery capacity and battery discharge time			
Measurement Speeds	Fast: 10t/s Medium: 5t/s Slow: 3t/s			
Trigger Modes	Internal, BUS and External Trigger			
Sequence List Function	0.1Hz to 1kHz 10 files and 99 steps/file			
Automatic Testing Function	10 files and 20 steps/file			
Interface	Remote sensing, external trigger, built-in RS-232C, RS-485 (optional)			
Display	True colour TFT-LCD 3.5"			

### Power Supply

110/220V, 48.5Hz to 62.5Hz

### Maximum Rated Power

15VA

## General Specifications

### Dimensions

264x 107 x 350mm (w x d x h) approx.

### Mass

5.0 kg

### Operating:

10°C ~ 40°C (storage 0°C to 50°C)

Relative humidity ≤ 80%

3000m (operating), 15000m (non-operating)

### Services

1-year warranty (subject to product registration with GPS Ltd)

Visit [www.gpslimited.com/register-product](http://www.gpslimited.com/register-product)

Service and calibration available.

Please contact for more information

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