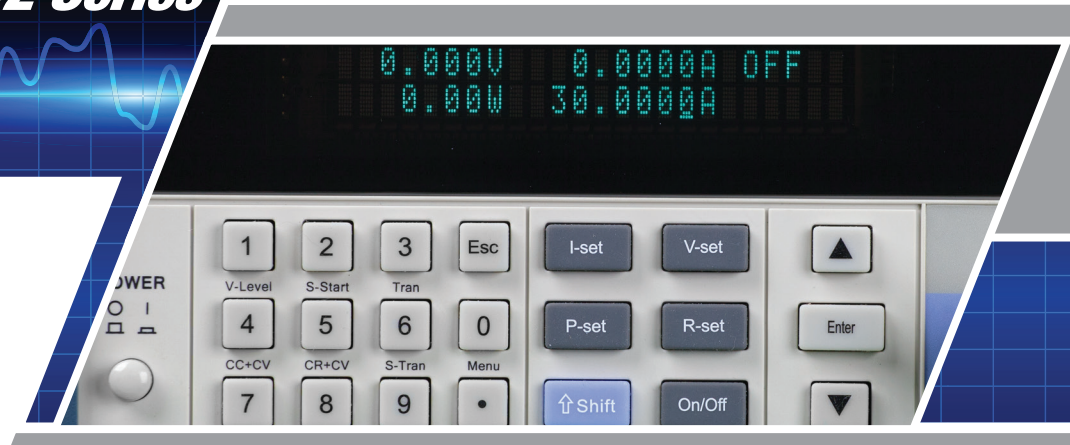


XT9812 Series

**Programmable
Electronic DC Loads**

XT9812 DC Electronic Load is a new generation product from Vitrek. The XT9812 is designed for LED driver or DC Power Supply applications.



There is a special circuit that has been designed primarily for the LED driver. The design utilizes high performance semiconductors with high speed and high accuracy, and resolutions of 0.1 mV and 0.01 mA (the basic accuracy is 0.03%, the basic current rise speed is 2.5 A/us). The XT9812 has wide applications from production line settings to the engineering bench. Target markets include the following type of manufacturers and markets; LED driver, cell phone charger, cell phone battery, electronic vehicle battery, switching power supply and linear power supply manufacturers, research institutes, automotive electronics, aeronautics and astronautics, solar cells and fuel cell markets.

- > Six high speed operating modes: 1. Constant Current (CC); 2. Constant Resistance (CR); 3. Constant Voltage (CV); 4. Constant Wattage (CW); 5. Constant Current (CC) + Constant Voltage (CV); and 6. Constant Resistance (CR)+ Constant Wattage (CW)
- > LED mode supports LED power driver test, provides steady reading, and capacitance sensitive driver compatible
- > Over current, over voltage, over power, over heating and reversed polarity protection
- > High-luminance VFD screen
- > Intelligent fan system that is automatically activated based on temperature changes
- > Soft-start time setting runs the power supply according to the pre-set voltage value
- > Battery and short-circuit testing functions
- > Capable of dynamic testing with rising edge and falling edge settings
- > Supports external trigger of input and output
- > External current waveform monitor terminal
- > Supports remote voltage compensation and multi data storage
- > Power-on-self-test, software calibration ready, and standard rack mountable
- > Arbitrary waveform editing
- > USB interface



While all Vitrek precision test equipment is designed to be used in a completely stand-alone manner, there are times when external tools can aid or enhance the operation of an instrument. XView software tools and drivers are designed to help easily configure an instrument from a single screen, or are used to view a complete set of measurements in a single screen. Other XView tools are designed for data collection where results can be recorded in an Excel-compatible file for post-processing, insertion into reports, or simply for archival purposes.

These precompiled applications can be downloaded from the Vitrek web site at www.vitretek.com. Often, Vitrek can provide the source code for a particular application, and it can be used as a convenient 'starting point' for a custom software application.

Quality and Reliability

Vitretek, founded in 1990, is the premier source of precision power testing and measuring equipment for industrial and consumer product development and manufacturing. Vitrek's sophisticated technology provides companies the edge in design verification and product manufacturability. Vitrek is ISO 17025 Accredited.

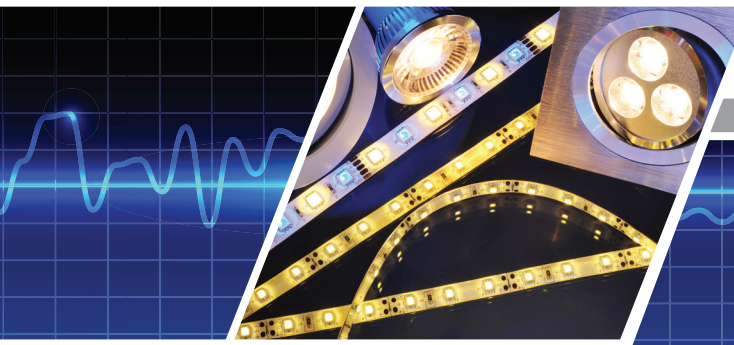
INDUSTRIES SERVED

- Lighting Consumer Products • Medical • Automotive • Regulatory Agencies
- Process Control • Power Supply • Battery • Alternative Energy • Military • Aerospace

25
Years Industry
EXPERTISE

XT9812 Series

Programmable Electronic DC Loads



Test Like You MEAN IT

ORDERING INFORMATION

ITEM#	DESCRIPTION
822- XT9182	Programmable DC Electronic Load; 300W, 150V, 30A
822- XT9182B	Programmable DC Electronic Load; 300W, 500V, 15A

MODEL	XT9812 / XT9812B	
INPUT RATING	Power	300W
	Current	0-30A or 0-15A(B)
CC MODE	Voltage	0-150V or 0-500V(B)
	Range	0-3A 0-30A or 0-15A(B)
CV MODE	Resolution	0.1mA 1mA
	Accuracy	0.03% + 0.05%FS 0.03% + 0.05%FS
CR MODE (Input Current ≥ 10%FS) (Input Voltage ≥ 10%FS)	Range	0.1 - 19.999V 0.1-150V
	Resolution	1mV 10mV
CW MODE (Input Current ≥ 10%FS) (Input Voltage ≥ 10%FS)	Accuracy	0.03%+0.02%FS 0.03%+0.02%FS or 0.05%(B)
	Range	0.03Ω-10kΩ 0.03Ω-5kΩ
V MEASUREMENT	Resolution	16 digit 16 digit
	Accuracy	0.1%+0.1%FS 0.1%+0.1%FS
I MEASUREMENT	Range	0-300W 0-300W
	Resolution	1mW 10mW
W MEASUREMENT (Input Current ≥ 10%FS) (Input Voltage ≥ 10%FS)	Accuracy	0.1%+0.1%FS 0.1%+0.1%FS
	Voltage	0-19.999V 0-150V or 0-500V(B)
BATTERY MEASUREMENT	Resolution	1mV 10mV
	Accuracy	0.015%+0.03%FS 0.015%+0.03%FS
DYNAMIC MEASUREMENT	Current	0-3A 0-30A or 0-15A(B)
	Resolution	0.01mA 0.1mA
CURRENT SOFT- start-up time	Accuracy	0.03%+0.05%FS 0.03%+0.08%FS
	Power	100W 300W
LED TEST	Resolution	1mW 10mW
	Accuracy	0.1%+0.1%FS 0.1%+0.1%FS
SHORT CIRCUIT	Battery Input: 0.1-150V;Max. Measurement: Capacity=999AH	
	Resolution=0.1mA; Time Range=1S-16H	
	Transition List: 0-25kHz; 2.5A/μS; T1&T2:60μS-999S; Accuracy:+15% offset+10%FS	
TEMPERATURE	1mS; 2mS; 5mS; 10mS; 20mS; 50mS; 100mS; 200mS; 500mS and 1000mS	
	Accuracy:+15% offset+10%FS	
WEIGHT	Press shift+▲ button to enter LED test. Repeat to escape the LED test. A D character shows on lower right of the display in the LED test.	
	Constant Current (CC)	≈3.3A ≈33A or 18A(B)
OPERATING POWER SUPPLY	Constant Voltage (CV)	0V
	Constant Resistance (CR)	≈28mΩ or 200mΩ(B)
TEMPERATURE	Operating	0-40°C
	Storage	-10°C ~ 70°C
WEIGHT	Lbs/Kgs	7.7 lbs/3.5kgs
	100V/200V, 60Hz/50Hz Manual Switch	



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Please visit www.vitrek.com for ordering information.