

XT9812 Series

WER

Programmable Electronic DC Loads

0.000U 0.000

Esc

0

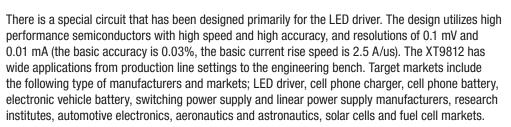
3

6

S-Tran

9

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



> 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)

4

C+CV

5

CR+CV

8

- > 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

0.0000A OFF

R-set

30.0000A

> 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. vitrek.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.

INDUSTRIES SERVED

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

Vitrek, founded in 1990, is the

Quality and Reliability

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.

> Years Industry **EXPERTISE**



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			
	Power 300W		OW	
INPUT RATING	Current	0-30A or 0-15A(B)		
	Voltage 0-150V or 0-500V(B)		r 0-500V(B)	
	Range	0-3A	0-30A or 0-15A(B)	
CC MODE	Resolution	0.1mA	1mA	
	Accuracy	0.03% + 0.05%FS	0.03% + 0.05%FS	
	Range	0.1 - 19.999V	0.1-150V	
CV MODE	Resolution	1mV	10mV	
	Accuracy	0.03%+0.02%FS	0.03%+0.02%FS or 0.05%(B)	
CR MODE	Range	0.03Ω-10kΩ	0.03Ω-5kΩ	
(Input Current ≥ 10%FS)	Resolution	16 digit	16 digit	
(Input Voltage ≥ 10%FS)	Accuracy	0.1%+0.1%FS	0.1%+0.1%FS	
CW MODE	Range	0-300W	0-300W	
(Input Current ≥ 10%FS)	Resolution	1mW	10mW	
(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)	
V MEASUREMENT	Resolution	1mV	10mV	
	Accuracy	0.015%+0.03%FS	0.015%+0.03%FS	
I MEASUREMENT	Current	0-3A	0-30A or 0-15A(B)	
	Resolution	0.01mA	0.1mA	
	Accuracy	0.03%+0.05%FS	0.03%+0.08%FS	
W MEASUREMENT	Power	100W	300W	
(Input Current ≥ 10%FS)	Resolution	1mW	10mW	
(Input Voltage ≥ 10%FS)	Accuracy	0.1%+0.1%FS	0.1%+0.1%FS	
BATTERY MEASUREMENT	ATTERY MEASUREMENT Battery Input: 0.1-150V;Max. Measure Resolution=0.1mA; Time Re		*	
DYNAMIC MEASUREMENT	Transition List: 0-25kHZ; 2.5A/µS; T1&T2:60µS-999S; Accuracy:+15% offset+10%FS			
	1mS; 2mS; 5mS;10mS; 20mS; 50mS;100mS; 200mS; 500mS and 1000mS			
Current Soft- start-up time	Accuracy:+15% offset+10%FS			
1 50 7507	Press shift+▲ button to enter LED test. Repeat to escape the LED test. A D character shows on lower			
LED TEST	right of the display in the LED test.			
	Constant Current (CC)	≒3.3A	≒33A or 18A(B)	
SHORT CIRCUIT	Constant Voltage (CV) 0V			
	Constant Resistance (CR) ≒28mΩ or 200mΩ(B)			
TEMPEDATURE	Operating	0~40°C		
TEMPERATURE	Storage -10°C ~ 70°C		~ 70°C	
WEIGHT	Lbs/Kgs	7.7 lbs/3.5kgs		
OPERATING POWER SUPPLY	ERATING POWER SUPPLY 100V/200V, 60Hz/50Hz Manual Switch			



Vitrek 12169 Kirkham Road Poway, CA 92164 (858) 689-2755 info@vitrek.com www.vitrek.com

ACCREDITED
Calibration Laboratory
Cert # 3678.01

Please visit www.vitrek.com for ordering information.