FOCUS MICROWAVES GROUP

High Power Pulsed I-V

Auriga's 5th Generation 1200V and 2000V PIV Systems

1200V

1200V / 10 or 100A DRAIN PULSER

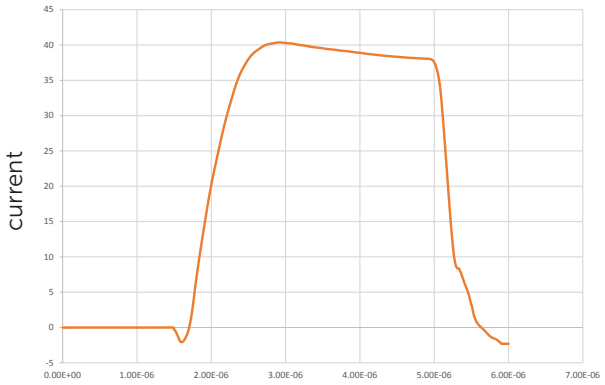
The PHD1200 supports the industry's most advanced high-powered devices. Leveraging recent breakthroughs in component and pulser-circuit technology provides unparalleled speed, accuracy, and resolution. Dynamic on-resistance of the latest transistors can now be measured with precision. The PHD1200 operates with the AU-5 Pulsed IV/RF Characterization System; this compact and versatile test solution accurately simulates real life and delivers unparalleled performance, capturing measurements with incredible accuracy and speed.

Model	Max Voltage (V)	Max Current Pulsed (A)	Max Error	Max Power (W)	Min. Pulse Width	Max PRF	Min. Output Rise /Fall
PHD1200-10/100	1200	100	0.01%	5000	1us	1kHz @ 2000V	84ns

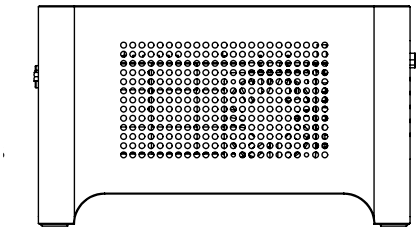
1200V Pulsed Waveforms

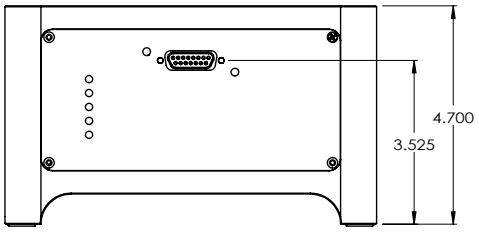
time (seconds)

40A Pulsed Waveforms



time (seconds)





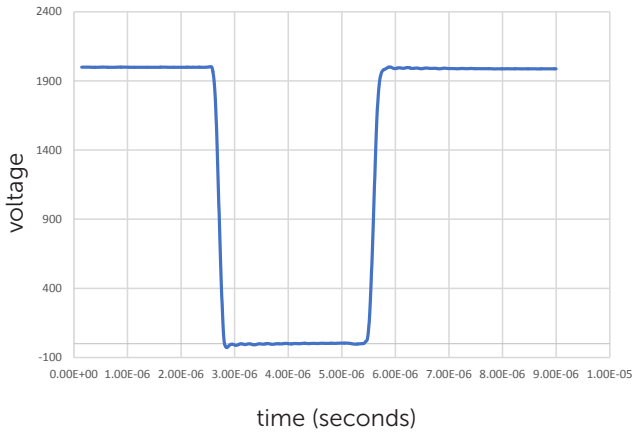
2000V

2000V / 10 or 100A DRAIN PULSER

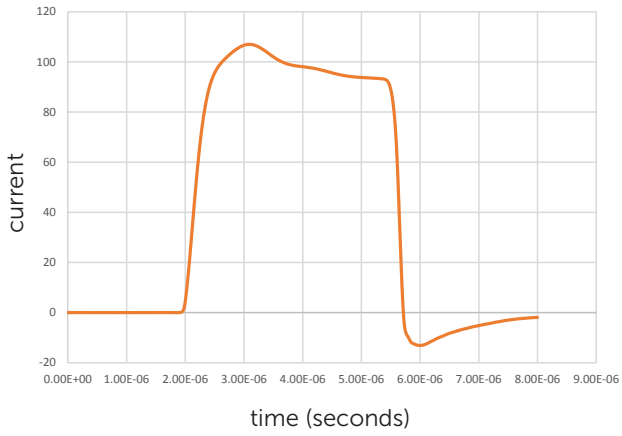
As GaN and other non traditional technologies continue to make inroads in high power applications, design and test engineers will require high performance robust narrow pulsed IV solutions. Auriga's new PHD2000drain pulser head, available with the newly redesigned AU-5 Pulsed I-V measurement system, allows for pulsed measurements up to 2000V and 100A. This new high voltage offering introduced to the market is due to increasing demand from various industry verticals which include Automotive, Medical, Industrial, and Telecommunications.

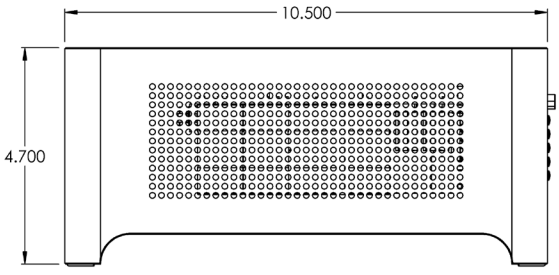
Model	Max Voltage (V)	Max Current Pulsed (A)	Max Error	Max Power (W)	Min. Pulse Width	Max PRF	Min. Output Rise /Fall
PHD2000-10/100	2000	100	0.01%	5000	1us	1kHz @ 2000V	84ns

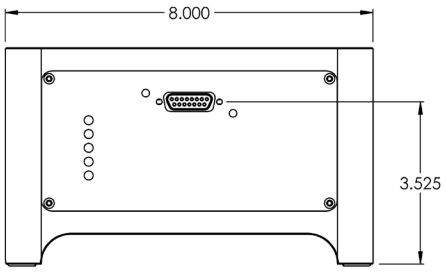
2000V Pulsed Waveforms



100A Pulsed Waveforms



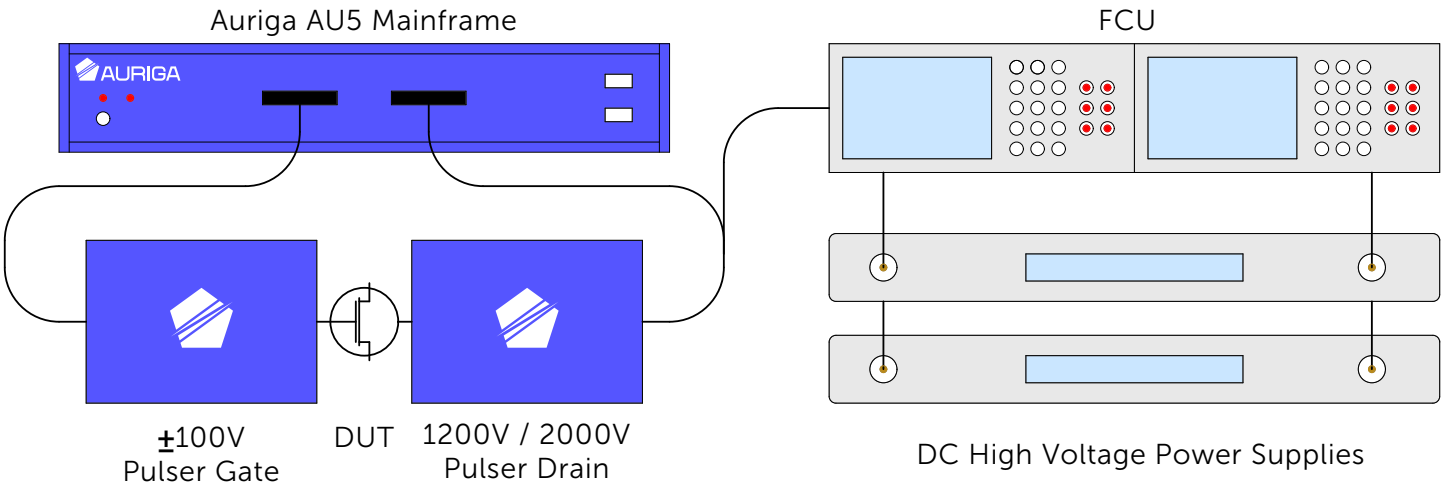




Intuitive Graphic User Interface

Auriga version 5.1

Auriga software interface displaying dynamic On-resistance measurement



Typical setup for High Powered Pulsed I/V