

AE®, the original innovators of pulsing technology for arc prevention nearly 20 years ago, introduces an embedded 5 kHz output in our flagship Ascent® AMS platform. This capability can improve the film quality of those demanding conductive oxides, while maintaining the platform's renowned power stability and repeatability—without loss of deposition rate.

Features

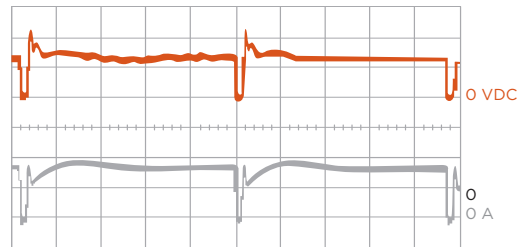
- › 5 kHz (120 A) and 2 kHz (150 A) output—optimized for difficult conductive films
- › Arc Management System™ (AMS) technology—customer pre-sets for metal and ceramic targets
- › Set Point Compensation™ technology—stable throughput

Benefits

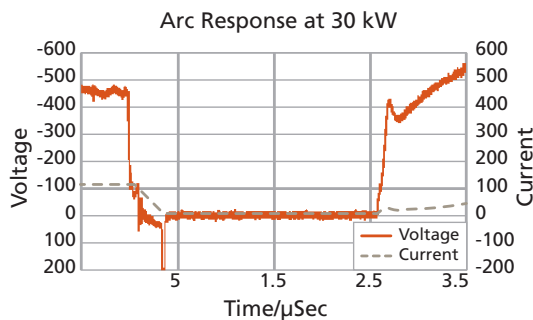
- › High film quality and throughput
- › Reduced film, substrate, and equipment damage
- › Stable throughput and power delivery under extreme arcing conditions
- › Easy integration and control



Periodic voltage reversal neutralizes charge buildup and proactively inhibits arcs—eliminating most even before they form.



5 kHz pulsing with 10 µsec shutdown



Leading-edge arc detection, shutdown, and recovery speed minimize film or equipment damage.

The combination of proprietary Arc Management System™ (AMS) and Set Point Compensation™ technologies minimizes film and equipment damage and maintains stable throughput.

Set Point Compensation™ technology improves power-delivery repeatability and maintains sputter rate by automatically adjusting power output to compensate for arc shutdowns.

