



A Legacy of Innovation and Reliability

At UNIPOWER LLC, we specialize in advanced built-to-spec custom high power/high voltage power solutions for military and industrial applications. Our power solutions assure the highest reliability and durability for mission critical applications.

Customers turn to us when their applications are complex and standard products are inadequate. We have earned our reputation by consistently providing expectation-exceeding custom engineering solutions.

Meeting Today's Challenges with Custom Solutions

We leverage our vast experience and leading edge technologies to manufacture one-of-a kind high power/high voltage solutions that require demanding performance specifications in extreme environments.

We understand our customers' technical and commercial needs and we can seamlessly function as an extension of an in-house engineering department. Our design teams customize proprietary UNIPOWER LLC conformable platforms to maximize reliability, realize cost effectiveness and maintain critical timeline integrity. Our proven engineering capabilities include:

- High density power
- Innovative power and circuit design
- Thermal and fluid analysis
- Mechanical engineering and packaging
- Electric circuit and field modeling
- Mean Time Between Failure (MTBF) reliability calculations.

Our customization capabilities for 100's of watts through 1000's of watts include:

- AC/DC front end, High Voltage DC/DC converters and power supplies
- Single and multiple outputs
- Continuous or pulsed DC
- Switchmode and linear power topologies
- Conduction, natural convection, forced air and liquid cooling
- Discrete and modular based designs
- Advanced magnetics capabilities
- Solid encapsulation
- Full environmental testing

UNIPOWER LLC - The Leader in High Power Industrial Solutions

Custom Power for Lasers, Magnetrons and Electron Beam Devices

Our custom designed high power/high voltage solutions have enabled manufacturers in these sectors to deliver the highest quality products. We can work closely with you to tailor a solution for your specific needs.

Liquid Cooled Design - Lower Operating Costs

Liquid cooling customization provides managed cooling of heat producing components in industrial high power/high voltage applications. Liquid cooling allows the high power/high voltage power supplies to be sealed enabling placement in extreme environments.

Custom Solutions for the Military

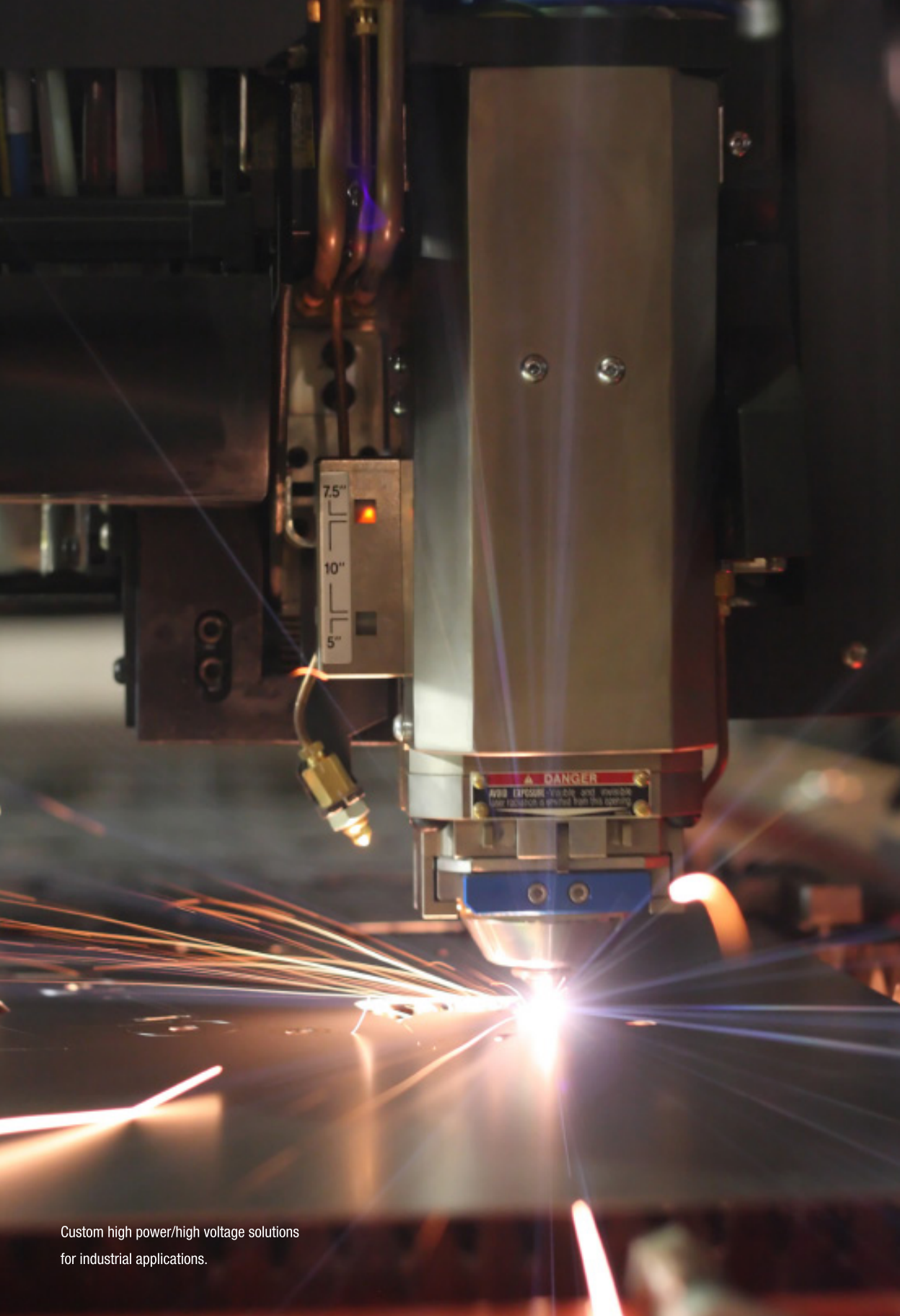
UNIPOWER LLC's military products benefit from our long term defense industry experience. We are on nearly every tier one approved vendor list. Our products are designed for demanding applications where failure is not an option.

Emerging military applications for our products include anti-ballistic and offensive weapons. These products are typically in the hundreds of watts range that run the gamut of input and output voltages.

As programs such as Future Combat Systems and Unmanned Vehicles gain momentum, there will be a growing need for our custom solutions.

The UNIPOWER LLC Guide to High Power/High Voltage Power Requirements by Industry

	Industrial				Military		
	Lasers	Advanced Coating	Magnetrons	Electron Beam	Cap Charge	Low Voltage	
System Power	5-250kW				5-250kW	up to 3kW	
Power Density	5W/in ³	25W/in ³			50W/in ³	-	
Source Mode	Constant Current/Power			Const. Voltage/Power	Constant Current/Power	Single/Multiple Output	
Cooling	Forced Air or Liquid				Forced Air or Liquid	Forced Air/Convection	
DC Output	75-150V Solid State 15-30kV Gas	400-800V 10-15 kV	5-50kV		5-50kV	1-2500V	
DC Mode	Continuous/Pulsed				Single/rep rate	Continuous/Pulsed	
Input AC	208/480V 3Ø 50/60HZ				208/480V 3Ø	115V 50/60/400HZ 3Ø	
Input DC	250/500V				250/500V	12-400V	
Strike Voltage	30kV	1500 or 5000V+	-		-		
Stored Energy	.05mJ/kW	5mJ/kW	500mJ/kW		0.01mJ/kJ/Sec		
RF	-	40/400kHz	-		-		
Current Min.	1 mA	10 mA		0 mA (Const. Volt.)	As Required		
Pulse Width	100uSec			500uSec (Voltage)	50uSec (Off Time)		
Rise Time	30uSec	100uSec	50uSec	500uSec (Voltage)	1mSec (Voltage)		
Rep Rate	2kHz			1kHz	1kHz		
Regulatory	CE/UL				CE/UL		MIL SPEC



Custom high power/high voltage solutions
for industrial applications.



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