

ITEM OPPORTUNITY SYNOPSIS

Scouting Number:	2024-194
Name of the item to be scouted:	High Voltage (HV) Transformer and PCB Assembly
State item to be used in:	New Jersey
Describe the Item:	
Please describe the item application/the end use of the item.	For our projects in the USA, we are looking for qualified suppliers to produce HV Transformers and PCB Assemblies. These components need to include specific features and components as detailed below.
Supplier Information:	
Type of Supplier Being Sought (select from the list below):	
Manufacturer	x
Contract Manufacturer	
Distributor	
Other (Please Specify)	
Reason for Scouting Submission (select from the list below)	
2nd Supplier	x
Price	
Re-Shore	
Past supplier no longer available	
New Product Startup	
BABA	
Other (Please Specify)	
Summary of Technical Specifications and Performance Requirements:	
Describe the manufacturing processes (elaborate to provide as much detail as possible)	Manufacturing capabilities should include the ability to produce high-voltage transformers and PCBs with specified features and components.
Provide dimensions / size / tolerances / performance specifications of the item	HV Transformer: - Resonant H bridge with SiC Mosfets. - Voltage form: rectangular, current form: sine. - Frequency: 200kHz, power: 25 kW. - Turn ratio: ¼, primary voltage: +/- 800V, secondary voltage: 15kV peak. - Primary current: 500A peak, secondary current: 26 A peak. - Applicable standard: EN 60076 series, rated insulation: 15 kV. - Lightning impulse tests @ 75kV, ambient condition: +5 to +55 degC. PCB: - Basic features (6 to 10 layers, CMS + some through hole). - Maximum size 25cm x 35cm, tropicalized. - Case built with aluminum folded sheets, plastic parts with guaranteed dielectric/thermal properties. - Cold plate for water-cooled power modules, copper bars, - specific components (lattice FPGA, TI microprocessor, Wolfspeed SiC Power module and gate drive, Electronicon power capacitors).
List required materials needed to make the product, including materials of product components, if applicable	Specific materials for high-voltage transformer and PCB components.
Are there applicable certification requirements?	
Yes	x
No	
Please explain:	See "other standards, requirements, etc" field
Are there any applicable regulations that apply to the production of this item?	
Yes	
No	x
Please explain:	
Are there any other standards / requirements?	
Yes	
No	x
Please explain:	
NAICS CODES:	
NAICS 1	335311 Power, distribution, and specialty transformer manufacturing
NAICS 2	335999 All other miscellaneous electrical equipment and component manufacturing

Additional Comments:	
Additional technical comments:	The suppliers should ideally meet the following suggested certifications: ATEX, NEC500, marine certified, or UL/CSA. However, these certifications are not mandatory as the project is not yet defined.
Volume and Pricing:	
Estimated Potential Business Volume (i.e. #units per day, month, year):	Estimated production volume to be determined based on project requirements
Estimated Target Price/Unit Cost Information:	Will vary according to the size and make of each individual item
Delivery Requirements:	
When is it needed by? (Immediate, 30 days, 6 months, etc.)	The project-specific timelines are not yet defined, so we are unable to provide an exact timeframe.
Describe packaging requirements (i.e. individually/group packaging, etc.)	Not provided
Where will this item be shipped?	The items will be shipped within the USA. However, we have been asked not to share the specific city/state/region at this time.
Additional Comments:	
Is there other information you would like to include?	