

ESPEY MFG. & ELECTRONICS

Innovative Design and Manufacturing Solutions for Custom Military Power Electronics

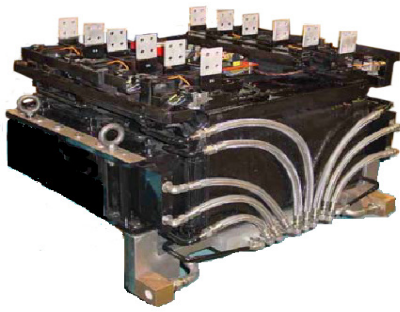
SEA: Zumwalt Class (DDG-1000) - Aircraft Support Power Supplies, Battery Charger Systems.
Littoral Combat Ships (LCS 1) - 3-Phase Power Distribution Transformers.
Virginia, Seawolf, Ohio Class Submarines - Low Noise 'Quiet Transformers'.
AN/AQS-22 ALFS - High Power Transformer; Polyphase / Rectifier.
Oliver Hazard Perry Class (FFG-7) - MK-92 Fire Control Radar Transmitter Systems.
Arleigh Burke Class (DDG-51) - Power Supplies and Filters.



LAND: M-777 LW155 Howitzer - Power Supply, Communications System and Digital Control.
TPS-79 3-D MMSR - Multi-Voltage Power Supply, Hot-Swappable, AC/DC Converters.
Patriot Missile Defense - Antenna Mast, Line of Sight Communication Antenna's.
BMDS - (AN/TPY-2 THADD)(SBX)(GBR Midcourse) - Liquid Cooled & Dry Type Transformers.
AN/GRC-245 HCLOS - Tactical and Ground Based Communication Antenna's.
NATO Early Warning Radar (RAT 31DL) - Full Radar Transmitter Rack System.
LANTIRN ER - Targeting Pod Test and Support Equipment.



AIR: J-LENS - High Voltage, High Altitude, Low Corona Transformers.
Apache AH-64 - Power Supplies for Vision / Target Acquisition Systems.
F-16 & F-18 - Electronic Warfare and Vision / Target Acquisition Systems.
Stinger Missile - Miniature High Voltage Power Supply for Missile Guidance.
E2D Advanced Hawkeye (AN/APY-9) - High Voltage and Processor Radar Power Supplies.
E2C Hawkeye (AN/APS-145) - High Voltage Radar Power Supplies and Transformers.
C-130 Hercules - Magnetic Components and Power Supplies.



POWER TRANSFORMERS

TYPES: Navy Shipboard Power Distribution & Isolation Transformers (1-75kVA) per MIL-T-15108, AB/NVR
Medium Voltage Power Transformers (10- 500kVA) per MIL, IEC & IEEE Specifications
Liquid Cooled Rectifier Transformers (100kVA – 1000 MVA)
Power and Distribution Transformers (1-2500kVA), per NEMA, MIL, IEC & IEEE Specifications
Dry Type, Dry Type with Intra Coil Liquid Cooling and Oil Filled, 220C Class Insulation Systems
Power Inductors, Switch-mode Power Supply Magnetics per MIL-PRF-27 Grade 4, 5, 6
Low Structure Noise Transformers Per MIL-STD-740
Qualified to MIL-S-901 Grade A HI-Impact Shock, MIL-STD 167

INPUTS / OUTPUTS:

Input Voltages: 115 – 11,800 VAC per MIL-STD-1399, MIL-STD-704, and Utility
Output Voltages: up to 100 KV
Rectified Outputs: 12 Pulse, 24 Pulse, 36 Pulse 8V to 100KV, up to 1 MW
Frequencies: 50 Hz, 60 Hz, 400Hz, 1-100 KHz



POWER SUPPLIES

TYPES:

CONVERTERS -

AC/DC, DC/DC Power Converters, Battery Chargers
Airborne per MIL-STD 704 Ground Based Mobile and Artillery per MIL-STD1275, Missile, Radar

INVERTERS -

DC/AC IGBT Gate Drivers
DC/AC Static Inverters (Shipboard) per MIL-STD-1399, True Sine Wave, UPS Inverters

HIGH VOLTAGE RADAR POWER SUPPLIES –

High Voltage Power Supplies for Radars, Pulse Transformers, Pulse Forming Networks
Capacitor Crowbar and Solid State High Voltage Switches

INPUTS / OUTPUTS:

AC Inputs: Aircraft 400Hz 115/200 VAC, Ground and Shipboard 50/60 Hz 85-450VAC 1-Ph, 3-Ph

DC Inputs: Shipboard 650VDC, Hybrid Battery 610VDC, 28V Aircraft per MIL-STD 704,
28V Ground Tactical per MIL-STD-1275

DC Outputs: Low Voltage/High Current - 3.3VDC @475A, High Voltage Pulse Power- 45KV 19A Peak, 28VDC
Ground Tactical, 28VDC Aircraft Maintenance, 28V Battery Charger/Battery Systems, 40 VDC Solid
State Radar, Isolated LV PWR 3.3, 5, 8, 12, 15, 24, 48 VDC, Systems to 100's of kW

AC Outputs: 115/200 VAC 400Hz for Aircraft Support, 60Hz, UPS, 1.5 to 300KVA
EMI per MIL-STD-461, EMP per MIL-STD-464, Environment MIL-810-E

ESPEY MFG. & ELECTRONICS CORP.

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SMALL BUSINESS

