



# Power Dense Motor Drives (PDMD)



Power dense drive

## Operational features and benefits

- High power-density
- Significant space and weight saving opportunities
- Ease of integration
- Air, sea water or fresh water cooling options
- Proven variable speed drive technology
- Rugged construction, suitable for harsh environments
- Designed to withstand high magnetic field, temperature and shock
- Low maintenance and through-life cost
- EMC compliant

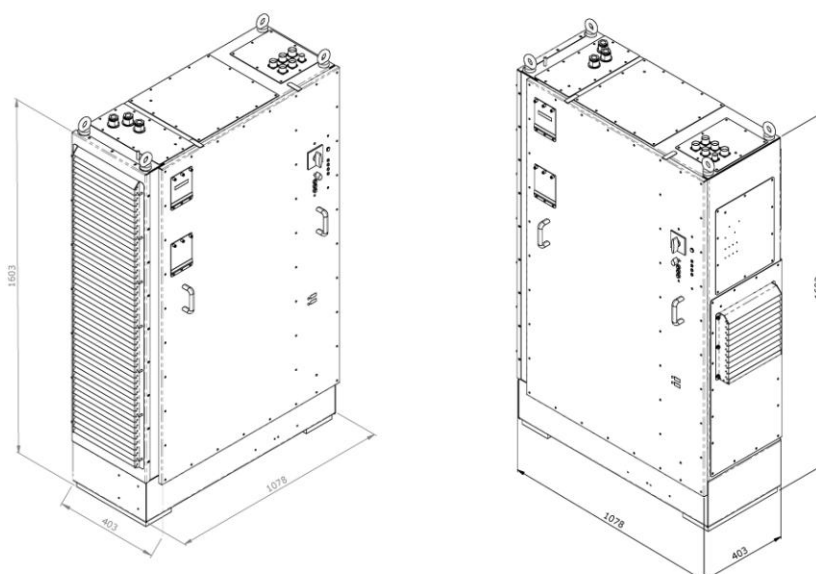
Ultra Electronics PMES is an established supplier of high technology power conversion and control systems for naval and energy applications worldwide. The trend towards increasing electrification, particularly for naval vessels, demands the replacement of hydraulic, pneumatic and mechanical systems with their electric software-controlled, equivalents. To meet this growing need for demanding, high reliability solutions, PMES provide compact motor drives (controllers). PMES's capability covers the design and manufacture of innovative power dense drives for a wide variety of naval and energy applications where space, weight, performance and environment factors, such as shock, vibration and wide temperature extremes, are important factors.

## Applications

- Industrial and marine gas turbine electric start systems
- Electric propulsion for ships and submarines
- Ships' shaft line generator systems
- Replacement of hydraulic or pneumatic systems
- Pumps, compressors and actuators
- Applications where minimal size and weight is essential

## Typical system specification

Power range	100kW to 2MW
Supply voltage	Up to 690V
Cooling	Forced air Sea water Fresh water oil
Enclosure sealing	IP52 (when air cooled) IP65 (when air cooled)
Environmental performance meeting Mil Spec and Def Std requirements	



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 AGPF/04-18