

Control system for a multi-engine ship power plant with an active electric machine damper consists of an internal combustion engine, sensors for the engine's speed, vibration, and torque, quick-release couplings between sections of the shaft line, with three sections of an electric machine fixed on them, a microcontroller-based control unit, a gyroscope unit for monitoring the vessel's spatial position, a wind azimuth control unit, a ship hull condition monitoring unit, a distributed wave load monitoring unit for the ship hull, and a ship draft monitoring unit. It also includes a power control unit that drives the active electric machine damper and a unit for monitoring dissipative losses.