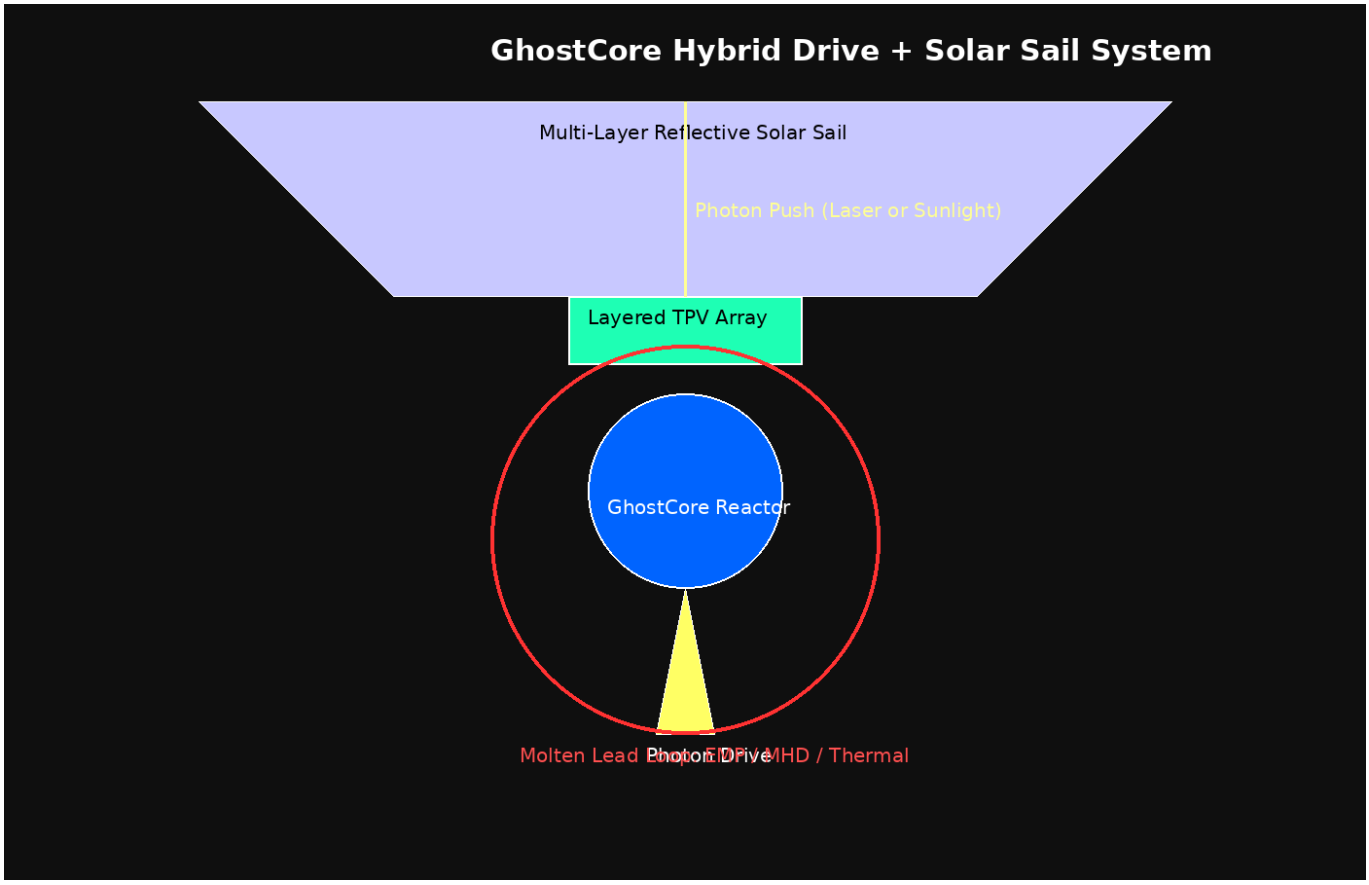
GhostCore + Solar Sail Hybrid Drive System



This hybrid system combines internal photon drive propulsion from the GhostCore TPV reactor with an external multi-layer solar sail.

The result is a dual-mode thrust model:

- Passive acceleration from starlight or laser systems using photon momentum
- Active propulsion using internal light emission from the TPV reactor
- EMP and MHD burst propulsion from the molten lead loop for short-distance maneuvering and tactical response

Combined, this extends mission endurance and reduces internal energy draw, allowing the ship to

conserve fuel and use external energy for additional delta-v.

Impact on Max Speeds:

While the internal photon drive alone enables long-term acceleration toward relativistic speeds (~0.2c possible), the addition of a solar sail allows early mission acceleration using solar or laser energy.

This can significantly reduce time-to-velocity, boosting acceleration curves and allowing the reactor to prioritize life support, shielding, or storage.

Net result: Faster mission ramp-up, higher efficiency, and less internal thermal stress.