Autonomous Underwater Vehicle Recharging System

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The Odyssey AUV Series uses a Lithium-ion Polymer battery which is able to supply the necessary power for a limited mission time. The current method of recharge includes surfacing the AUV, opening the vehicle, removing the battery from the vehicle and recharging the battery. A different approach is proposed which uses an inductive coupling and power electronics to conduct a battery charge without opening the vehicle or removing the battery.