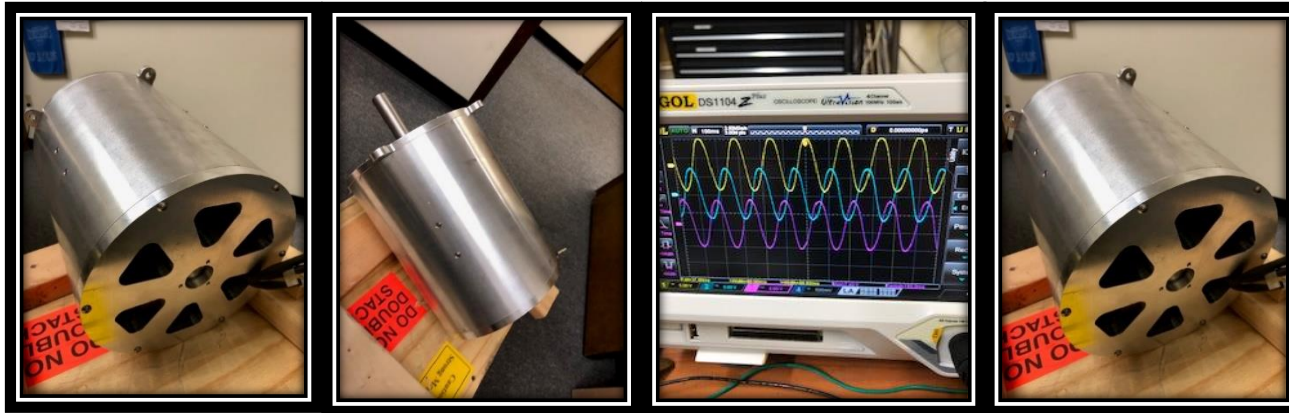




The Power of Attraction TM

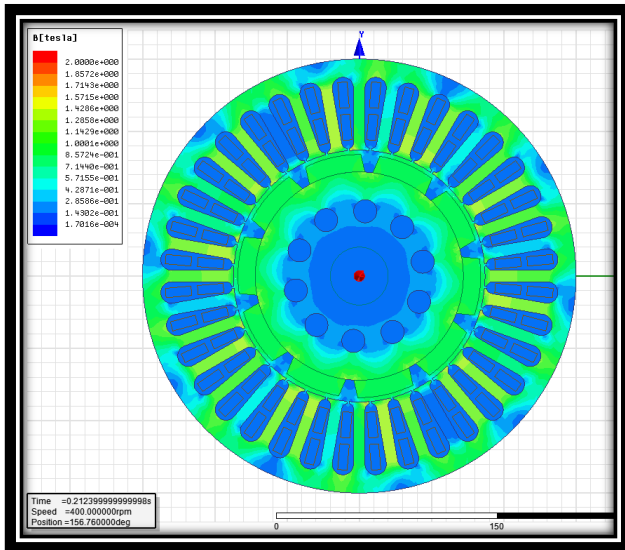
Product Overview
May 2023

MEI LRHO HPAC-22 alternator

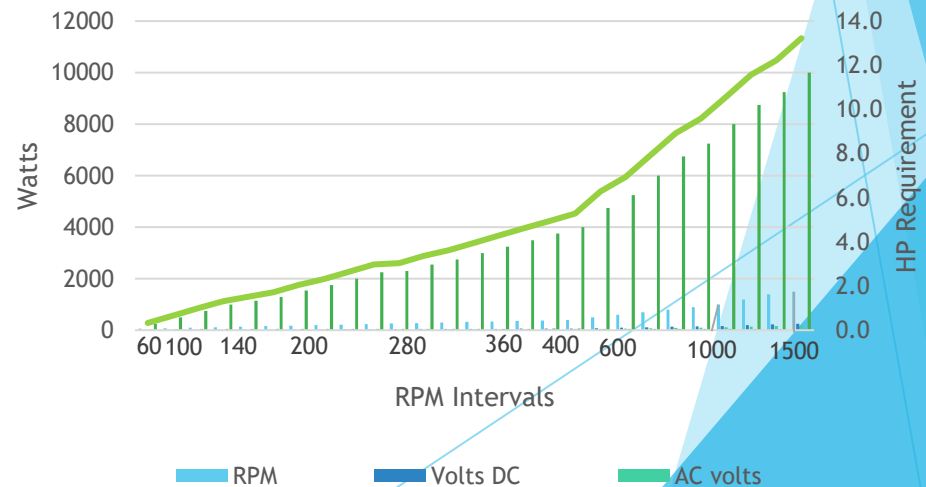


Near-zero cogging - 99.7% mag saturation

Low RPM, High Output



HPAC-22 Performance Profile



LRHO HPAC-22 Alternator

- ▶ Low RPM, High Output, Ultra-efficiency
- ▶ @ 400 rpm provides 4 Kw (3-phase, DC rectifier option)
- ▶ @ 750 rpm provides 8 Kw (3-phase, DC rectifier option)
- ▶ Max rpm = 1500 (12-14 Kw) (3-phase, DC rectifier option)
- ▶ Efficiency is greater than 96%
- ▶ 1-inch input shaft; ¼” keyway
- ▶ Universal mounting - vertical or horizontal
- ▶ Zero maintenance - check bearing wear every 11.3 yrs.
- ▶ Permanent magnet rotor (1% degradation ever 100 years)
- ▶ No sensors, no brushes, very little heat due to high efficiency

Technology Applications

- ▶ Motor/Permanent magnet alternator
- ▶ Technology can be shrunk or expanded based upon application
- ▶ Ultra high efficiency allows for long battery power on motors and less losses on power generation

MEI Vertical Wind Turbine Program

MEI Wind Turbine



MEI VWT characteristics

Quiet, bird-friendly, hidden components, zero emissions, silent, small footprint

MEI Vertical Wind Turbines provide significant advantages:

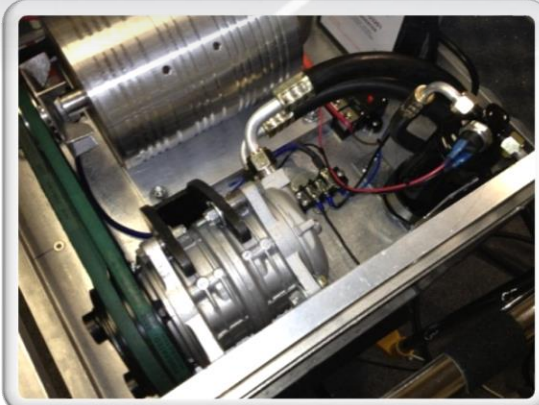
Specifications	MEI	Notes
Model - sizing by output	VWT-1, 2, 4, 8, 11, 12	
Rotor magnetically suspended	No friction, no bearings	Superior Efficiency
Output	1, 2, 4, 8 kW	Superior
Wind speed - self starting	6-28 mph	Max 135 mph
Alternator - max output at 28 mph	Direct Drive or belted	No gears - simplicity
Operating temp range	0F - 140F	Superior
Standard battery capacity	40 amphr @ 24/48 VDC	No-wind optional
Automatic under/over charge protection	Load dump included	Constant output
Battery weight	45 lbs.	Li-Ion, AGM, optional
System weight	235 lbs.	Less then competitors
Weatherproof	Sealed	Waterproof
Omni-directional wind	No restrictions	No directional vanes
Maintenance	Minimal	Battery only
Output inverted	DC/AC/110/220 VAC GFCI	Included
Mount anywhere	Ground/tower/pedestal	Silent

Forced Air Cost Recovery

- ▶ Place turbine in air-exit path of HVAC
 - ▶ Invert turbine output direct into sub-panel
 - ▶ Lower building/structure operating expenses



MEI Truck APU -



MEI APU Benefits

- ▶ Fully self-contained in a box
- ▶ Installation ease - 6 hours, a single 3” hole in floor
- ▶ We meet and exceed service duty requirements (10 hours)
- ▶ Double or triple heat/cooling capability
- ▶ 100% fully automated (6” touch screen- on/off/set temperature)

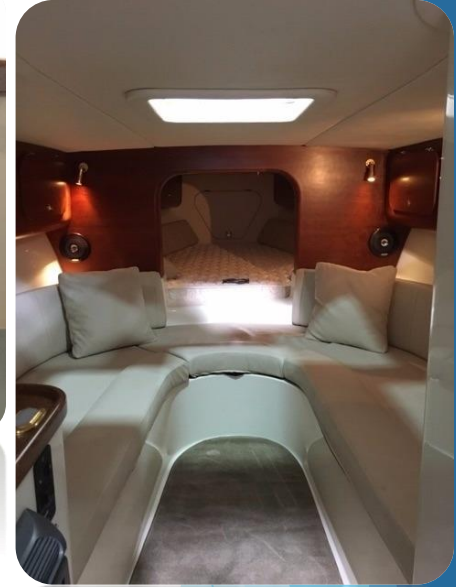
Marine APU adaption

- ▶ Marine industry (sail, cruise, powerboats)
- ▶ Cabin climate control without fossil fuels



MEI installed power unit One-touch cool/heat/power

MEI Marine APU



- Custom design & custom build for each application
- Separate shore power circuitry
- Dual batteries, SN1-M1, A/C compressor mounted in engine compartment
- Controls and evaporator installed in cabin compartment
- Boat was on display at the Ft. Lauderdale International Boat Show – Sept. 2017
- SOW Completed with Successful Pilot – **Capability – 6 hours climate control**

MEI - EV (Electric Vehicle) Cart

Powered by MagLev Energy, Inc. proprietary highly-efficient motor and controller technology, MEI produced a prototype Electric Vehicle (EV) based upon Golf Cart dimensions with far superior performance, range, comfort and features: silent, requires no cooling, and efficiency without equal!

- Near-zero maintenance (motor/electronics are sealed, impervious to dust, moisture)
- 6-12 HP with a continuously variable belted transmission (CVT)
- Range with standard MEI batteries: 73 miles
- Recharge time: 3.5 hours from standard 110 VAC household outlets
- Optional Air-conditioning
- Top speed 63 mph ; Governed to 20 mph for safety
- Engaged professional automotive driveline experts, installed results, reconditioned cart, requires regulatory compliance

Super Cart



System Master



MEI Electric Outboard Motor

Battery fueled electric outboard motor

- Quiet – 52 Db idle, 92 Db full throttle
- Twist grip speed control
- Forward – Neutral – Reverse switch on handle
- Supports any battery type (Lithium Ion, Lead Acid, AGM, Gel)
- 48 VDC native voltage, integrated motor controller
- No water cooling necessary; operates slightly above ambient temperature
- Equivalent to approximately 40 HP fossil fuel outboards
- 100% full HP/torque from 50 rpm to 4000 rpm (flat efficiency curve)



Intellectual Property

Full patents:

- ▶ 1st patent - base MEI technology granted April 2008
- ▶ 2nd patent - harvesting back-EMF granted May 2012
- ▶ 3rd patent - hybrid electromagnetic coils granted May 2013
- ▶ 4th patent - generating current in a magnetic field granted October 2013
- ▶ 5th patent - high efficiency permanent magnet machine granted September 2014 (SN1 M1+)
- ▶ 6th patent - vertical wind turbine granted May 2015
- ▶ 7th patent - high speed high efficiency permanent magnet machine granted February 2018

Pending patents:

- ▶ 8th patent now pending for new SN1 - HPAC motor/alternator technology
- ▶ 9th patent in definition for wind turbine airfoil enhancements

International patents filed for SN1, HPAC-series technology

Trademarks:

- ▶ “The Power of Attraction” and “SilentNight”

In construction:

- ▶ Copyright for software specialties

The Power of Attraction™





Thank you!

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