

# WL1500 Inverter Rated AC Induction Motor



**Ward Leonard**

*Power Solutions when the Stake are High.*

The Ward Leonard WL1500 inverter rated AC induction motor is designed and manufactured specifically for use in oil patch applications. Based upon rugged motor designs currently found in the U.S. naval fleet, the WL1500 is built under documented in-process quality procedures that ensure product reliability under the most severe operating conditions.

- High Partial Discharge (PD) Tolerance – Insulation system developed in conjunction with UK-based Alston TDE, centered on PD insulation performance resulting in a high PD tolerance for this motor.
- Greater peak torque – High density windings allow higher copper slot fill, delivering up to twice the peak torque as DC motors from zero rpm through rated rpm and also deliver full horsepower at just 800 rpm and constant horsepower thereafter.
- Excellent high temperature operation – High copper and iron contents provide greater thermal mass to withstand the high temperatures of continuous operation without diminishing component life.
- Reduced voltage drop – Minimum wire turns per phase group reduces voltage drop on the leading turn.
- Backwards compatible design – The WL1500 model fits the footprint and shaft height of the GE752 for simplified retrofits.
- Extended life – Our enhanced insulation system, based on insulation systems used in multiple U.S. naval motor applications, includes turn-to-turn and phase-to-phase protection as well as multiple vacuum pressure impregnation (VPI) epoxy treatments and varnish coatings.
- Low bearing wear – Insulated bearings prevent current transmission through the shaft and extend bearing life.
- Best quality – Extensive in-process testing and documentation throughout the manufacturing process ensure outstanding quality and superb reliability. Testing includes, but is not limited to, water immersion of finished motor, surge comparison of windings prior to and after the VPI process, and full-load testing.



## Ordering Information

Order by catalog number.

## Contact Information

Ward Leonard Electric Company Inc.  
401 Watertown Road  
Thomaston, CT 06787 USA  
Tel: 860-283-5801

Continuous rating	1500 hp	Efficiency	97%
Cooling	Forced air	Pole/RPM	6/800
Insulation class	H	FL Amps	1,330
Blower rating	20 hp	Power Factor	0.89
FL torque	9,850 lbs-ft	Intermittent rating	2,250 hp

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Peak torque	32,400 lbs-ft	Nominal voltage	575 V
Space heater	Yes	RTD's	6-100 ohms Platinum
ATEX Certified	EEXe	Rotor Construction	Copper Bar
Motor weight total	8,250 lbs	Pressure sensor switch	Yes
Rotor weight	3,400 lbs	Nominal frequency	40.4 hz
WR^2	1,040 lbs-ft^2		