

# Single Phase Pancake Synchronous Ac Generator

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Alternating Current Generators A.C. Generators Small AC Generator Service Volume 1 Ed. 3  
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Performance Standards for A-C Generators and Associated Regulators A. Bhatia Robert L.  
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*Generators and Controls Motors and Magnetic Devices*

an alternating current generator or ac generator produces an alternating current which means the voltage produced alternately reverses from positive to negative polarity producing a corresponding change in the direction of current flow much like a dc generator an ac generator requires a coil to cut across the force lines of a magnetic field this coil is attached to two slip rings which deliver the current to and from the load destination thus completing the circuit alternating current generators are often called alternators the magnitude of ac voltage

generated by an ac generator is dependent on 1 the strength of the magnetic field number of lines of force 2 the speed at which the loop rotates 3 the number of loops of wire that cut the magnetic field a rotation speed of 3000 revolutions per minute rpm produces 50 hz and 3600 rpm produce 60 hz the electric current in north american homes has a frequency of 60 hertz while in europe it is 50 hz an alternating current motor or ac motor uses electrical energy to produce motion and torque very simple ac motors are called squirrel cage motors these have only one or more stationary coils within which a special kind of mechanical rotor is free to rotate there is no electrical connection to the rotor from the outside most ac motors require a starter or method of limiting the inrush current to a reasonable level types of motor starting include reactive capacitor start and inductive start and electronic frequency drives and soft start drives the reactive start method is usually used on fractional horsepower motors and the electronic method is usually reserved for larger motors this 4 hr quick book provides a basic understanding of ac motors and generators explaining how to use them how to calculate power and determine torque considerations the course is based entirely on naval education and training materials navedtra 14177 electricity and electronic training series module 5 and covers chapter 3 and 4 titled alternating current generators and alternating current motors learning objective at the conclusion of this course the reader will be able to describe the principle of magnetic induction as it applies to ac generators describe the differences between the two basic types of ac generators explain the factors that determine the maximum power output of an ac generator describe the relationships between the individual output and resultant vectorial sum voltages in multiphase generators list the factors that determine the frequency and voltage of the alternator output describe the purpose and procedure of parallel generator operation list three basic types of ac motors and describe the characteristics of each type describe the characteristics of a series motor that enable it to be used as a universal motor state the primary application of synchronous motors and explain the characteristics that make them suitable for that application describe the features that make the ac induction motor the most widely used of electric motors explain the operation of split phase windings in single phase ac induction motors describe the effects of shaded poles in single phase ac induction motors

this reference guide provides the newcomer with complete coverage of the design and application of ac generators throughout the text emphasis is placed on the engineering

principles involved and the lengthy use of equations is avoided whenever possible the author explains the effects of the many different approaches that are possible and also demonstrates how the various parts of the design affect other aspects of performance

service and maintenance procedures for small generators manufactured before 1990

this aerospace standard as covers the general minimum performance standards of a c generators and associated regulators for civil aircraft the generator is a nominal 120 208 volt 400 hz 3 phase y connected system that provides the primary or backup power for electrical systems the machine can be a brush or brushless design and is normally air cooled this is a dated ac generator specification that has been superseded by multiple military and commercial specifications and is no longer utilized

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