



PSS21

PACKAGED STANDBY GENERATOR

**** UL 2200 - September 2010**

<u>MODEL NUMBER</u>	<u>POWER OUTPUT (60hz)</u>	<u>KW</u>	<u>L.P. GAS</u>			<u>NATURAL GAS</u>		
			<u>KVA</u>	<u>AMPS</u>	<u>KW</u>	<u>KVA</u>	<u>AMPS</u>	
PSS21-3	120/240V, 1-Phase, 1.0 p.f.	21.4	21.4	89.0	21.4	21.4	89.0	
PSS21-4	120/208V, 3-Phase, .8 p.f.	22.0	27.5	76.4	22.0	27.5	76.4	
PSS21-17	120/240V, 3-Phase, .8 p.f.	22.0	27.5	66.2	22.0	27.5	66.2	
PSS21-18	277/480V, 3-Phase, .8 p.f.	25.0	31.2	37.6	25.0	31.2	37.6	

Power Rating – Continuous Standby; Derate 3.5% per 1,000 feet elevation above sea level.

Engine Specifications and Features

The 4 cylinder, overhead valve GM 3.0L engine develops 21 kW (single phase) at 1800 rpm with a displacement of 181 cu.in. The engine is controlled by an electronic governor, maintaining frequency at 60hz +/- .5%.

The engine features include electronic ignition, engine blockheater and a vapor fuel system as standard. A critical grade muffler is installed to reduce engine noise levels. Battery rack and cables, and a battery tender (charger) are also installed in the standard package. A BCI Group 24 650 CCA battery must be purchased separately.

Engine cooling is provided by a unit mount radiator. The engine is equipped with a belt driven pusher type fan.

<u>Fuel Consumption</u>	<u>LP Gas</u>	<u>Natural Gas*</u>
100% Load	3.9 gal/hr	340 ft ³ /hr
50% Load	2.0 gal/hr	179 ft ³ /hr

* Fuel consumption is based on single phase operation only and 1000 BTU/standard cu. ft. natural gas. Contact factory for three phase fuel consumption figures.

Generator

The generator is a single bearing rotating field generator mounted to the engine flywheel via dual flex drive discs. Three phase generators have 12 lead broad range reconnectable stators; single phase stators are 4 lead. An external voltage regulator maintains proper voltage output, accurate to +/- 1.5%. The generator features Class H insulation with harmonic distortion of less than 5% at full load.

Telephone interference; The THF (as defined by BS4999 Part 40) is better than 2%. The TIF (as defined by ASA C50.12) is better than 50.

The engine generator combination has the ability to start and operate motors up to 8 hp Code G. Mainline circuit breaker included for generator protection.

Specifications subject to change without notice.

Engine/Generator Control System - DSE 7110

- * Solid state digital control with LCD display
- * Run-Off-Auto function is controlled by three push buttons with indicator lights
- * LCD Displays: Engine Oil Pressure, Coolant Temperature, Battery Voltage Level and Frequency continuously, with the ability to toggle the voltage and amperage on each phase.
- * Additional Indicator Lamps notify the user when the system is Not-In-Auto, in Alarm condition, or when the generator is supplying over 2% of its capacity to the loads.

Digital Engine Control Standard Set Up:

* Start Delay	10 seconds
* Cool Down Delay	5 minutes
* Cycle Cranking	3 cycles
* Overcrank Protection	Standard
* Overspeed Protection	Standard
* Low Oil Pressure Protection	Standard
* High Water Temperature Protection	Standard

Options

- * Vapor fuel strainer.
- * LPG liquid withdrawal fuel system.
- * Optional automatic transfer switch sold separately. Contact factory for sizes and types available.

Size and Weight

L x W x H (in.)	80 x 35 x 38.25
Ship Weight (lbs.)	1650 lbs.

Warranty Information

Generator	2 yrs or 1000 hrs
Engine	3 yrs or 3500 hrs