



PSS27LS PACKAGED STANDBY GENERATOR

<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>	
PSS27LS	120/240V, 1-Phase, 1.0 p.f.	27.0	27.0	112	24.0	24.0	100	
PSS27LS-4	120/208V, 3-Phase, .8 p.f.	27.0	33.7	94	24.0	30.0	83	
PSS27LS-17	120/240V, 3-Phase, .8 p.f.	27.0	33.7	81	24.0	30.0	72	
PSS27LS-18	277/480V, 3-Phase, .8 p.f.	27.0	33.7	40	24.0	30.0	36	

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 3.0 engine develops 48 hp at 1800 rpm with a displacement of 181 cu.in. The engine is controlled by an electronic governor, maintaining frequency at 60hz +/- .5%. DB rating is 74 dBA at standard 7 meters.

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>Full Load</u>	<u>Half Load</u>
LP Gas	3.3 gal/hr	2.4 gal/hr
Natural Gas	320 ft ³ /hr	197 ft ³ /hr
LP Gas	301,720 BTU/hr	219,647 BTU/hr
Natural Gas	320,000 BTU/hr	197,000 BTU/hr

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%. 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 12 hp Code G. Mainline circuit breaker included for generator protection.

Engine/Generator Control System

- * 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.
- * Three 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:

- * NFPA 99 and NFPA 110 compatible Digital Controls available with pre-alarms.
- * Remote displays with 7 pre-alarms and 8 alarm indicators, switch off auto and unit supplying load lamps.
- * Vapor fuel strainer.
- * LPG liquid withdrawal fuel system.
- * Optional automatic transfer switch sold separately. Contact factory for sizes and types available.

Warranty Information

Generator	2 yrs or 1000 hrs
Engine	1 yr or 2000 hrs

Size and Weight

L x W x H (in.)	88 x 35.3 x 48.5
Ship Weight (lbs.)	1544 lbs.

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