



LIQUID COOLED PACKAGED STANDBY GENERATOR

Powered
by:



3.0 Liter
Naturally Aspirated

MODEL NUMBER	STANDBY RATING			L.P. GAS			NATURAL GAS		
	POWER OUTPUT (60HZ)	KW	KVA	AMPS	CB AMPS	KW	KVA	AMPS	CB AMPS
PSS30-3	120/240V, 1-Phase, 1.0 p.f.	30.0	30.0	125	125	28.0	28.0	117	125
PSS30-4	120/208V, 3-Phase, .8 p.f.	30.0	38.0	104	100	28.0	35.0	97	100
PSS30-17	120/240V, 3-Phase, .8 p.f.	30.0	38.0	90	90	28.0	35.0	84	90
PSS30-18	277/480V, 3-Phase, .8 p.f.	30.0	38.0	45	45	28.0	35.0	42	45

Derating Factors: Temperatures - 3% per 10° above 104° F; 3.5% per 1,000 feet elevation above sea level.

ENGINE FEATURES

The 4 cylinder, overhead valve GM 3.0L engine meets EPA/ Carb Emission Regulations for LSI Engines. All engine functions are controlled by an engine mounted ECM.

The engine features include an electronic ignition, engine blockheater and vapor fuel system. A critical grade muffler is installed to reduce engine noise levels. Battery rack, cables, and battery tender (charger) are factory installed. 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.

ENGINE SPECIFICATIONS

MAKE	GM
MODEL	3.0L INDUSTRIAL
FUEL TYPE	LP VAPOR OR NATURAL GAS
BASE HORSEPOWER-STANDBY (1800 RPM) (NG)	43 HP
ENGINE CONTROL	ENGINE MOUNTED ECM
FUEL DELIVERY	VAPOR
STEADY STATE GOVERNOR	ELECTRONIC
ENGINE SPEED	1800 RPM
CYLINDERS	4
TOTAL DISPLACEMENT	181 in ³
BORE X STROKE	4.00 X 3.60 IN
ASPIRATION	NATURAL
COMBUSTION AIR REQUIREMENT	94.3 CFM
COOLING	LIQUID
RADIATOR CAPACITY	9.5 QTS
TOTAL COOLING CAPACITY	15.5 QTS
HOUSING (GM ADAPTER GROUP)	FLAT FACE
FLYWHEEL (GM ADAPTER GROUP)	300 mm
ROTATION	CCW
LUBE OIL SPEC	SAE 10W-30
OIL & FILTER REPLACEMENT	150 HR
TOTAL OIL CAPACITY	4.5 QTS
EXHAUST OUTLET SIZE @ MUFFLER	2 in
ELECTRICAL SYSTEM (NEGATIVE GROUND)	12V
ALTERNATOR	70 Amp
NOISE LEVEL (7 METERS) (N-L / F-L)	69 / 75 dBA

GENERATOR FEATURES

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 generators are 4 lead. An external voltage regulator maintains proper voltage output, accurate to +/- 1%.

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.

OPTIONAL Excitation Boost System available.

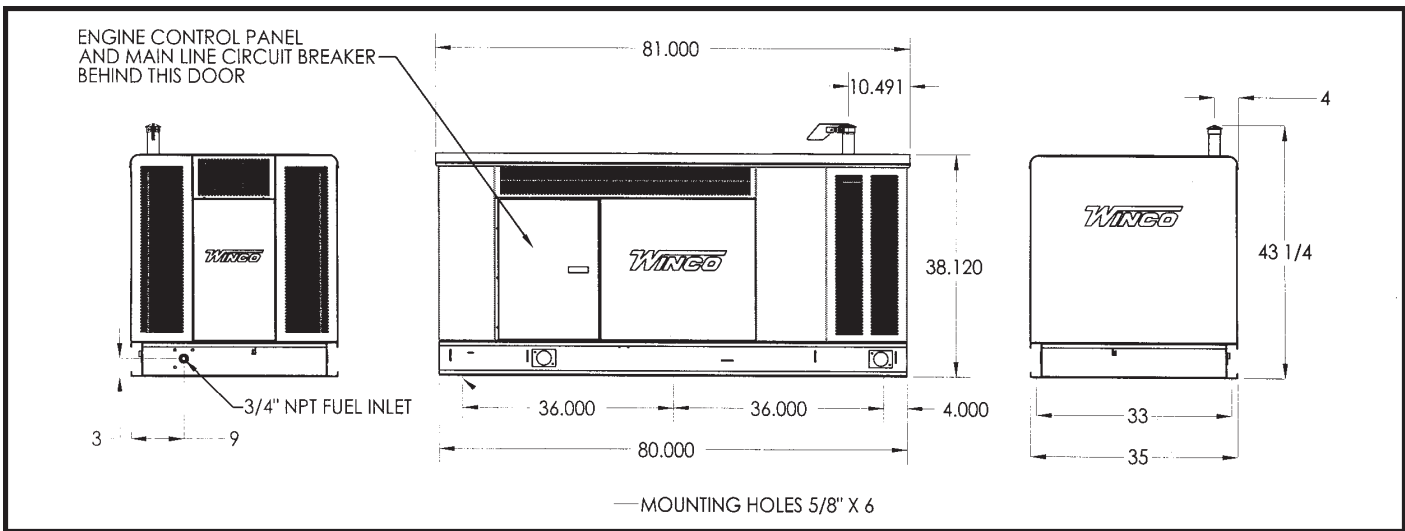
GENERATOR SPECIFICATIONS

RATING	125° C / 40° C	STANDBY
TYPE	4 POLE	REVOLVING FIELD
SPEED	1800	RPM
INSULATION SYSTEM	CLASS H	
SINGLE PHASE	4 LEAD	
THREE PHASE	12 LEAD	
STATOR WINDINGS	DOUBLE LAYER	CONCENTRIC
PITCH	2/3	
WAVEFORM DISTORTION	< 1.5%	
TELEPHONE INTERFERENCE	< 2.0%	
EFFICIENCY PEAK	87%	
COUPLING	FLEXIBLE	DISC
BEARINGS (MAINTENANCE FREE)	1	
VOLTAGE CONTROL	AS 480	
REGULATION	+/- 1%	
SINGLE PHASE POWER FACTOR	1.0	
THREE PHASE POWER FACTOR	0.8	

FUEL CONSUMPTION

Fuel Type	Full Load	BTU/Hr
LP Gas*	4.83 gal/hr	442,049
Natural Gas	432 ft ³ /hr	432,000
Inlet Pressure	4-6 oz. / 7-11 in. water column	
Fuel Inlet Size	3/4 in.	

* LP liquid withdrawal is available in a Non-ETL configuration



GENERATOR CONTROLLER

General

Deep Sea digital genset controllers are highly advanced microprocessor controllers. Each model is designed to stand up to the harshest conditions providing timely performance information and safety shutdowns. With so many options it is easy to find a controller flexible enough to meet your application. Some options may require activation through the free interface software or additional accessories. The DSE 7110 is standard on the PSS30.

Features	DSE 3110	DSE 7110	DSE 7310
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Engine Display/Protection

Engine RPM	X	X	X
Low Oil Pressure	Shutdown Only	X	X
High Coolant Temperature	Shutdown Only	X	X
Low Coolant Level	Optional	Optional	Optional
Overspeed	X	X	X
Underspeed	X	X	X
Overcrank	X	X	X
Charging Alternator Failure	Optional	X	X
CAN ECU Shutdown	X	X	X

Genset Display/Protection

Voltage (L-N)	One L-N or L-L	X	X
Voltage (L-L)	One L-N or L-L	X	X
Overvoltage	X	X	X
Undervoltage	X	X	X
Frequency	X	X	X
Overfrequency	X	X	X
Underfrequency	X	X	X
Phase Imbalance	-	-	Disabled
Amp Display/Shutdown	-	X	X
kW, kVa, kVAh, pf Display	-	-	X
kWh, kVAh, kVAh Display	-	-	X
Generator Phase Sequence	-	-	X
Earth Current	-	-	Optional

Additional Displays/Protections

Emergency Stop	X	X	X
Battery Voltage	-	X	X
Battery Over/Under Voltage	-	X	X
Battery Charger Failure	-	Optional	Optional

Controller Features (con't)

	DSE 3110	DSE 7110	DSE 7310
Communications			
USB Connectable	X	X	X
RS232/RS485	-	-	X
NFPA Annunciator	-	-	10xDSE 2548
Remote Display Panel	-	-	3xDSE 2510
Ethernet/Modem	-	-	Optional
Additional Features			
Audible Alarm	-	-	X
Engine Exerciser	-	X	X
Maintenance Interval Timer	-	1 Event	3 Event
Load Shedding/Dummy	-	-	5 Step
Configurable Inputs	6	7	9-24 w/DSE 2130
Configurable Outputs	4	8	6-80 w/DSE 2751
Event Log	-	5	250
Alternative Configurations	1	1	3
UL/CSA Listed	X	X	X

HOUSING & CONSTRUCTION

- Sound attenuated enclosure constructed of galvanized steel with durable baked powder coat paint finish.
- Generator set is factory built and tested to NEMA standards.

OPTIONS

Battery Chargers

- 2 amp (standard)
- 3.5 amp
- 6 amp
- 6 amp w/Fail Contact
- 10 amp
- 10 amp w/Fail Contact

Generator Accessories

- Anti-condensation Heater
- Excitation Boost System
- 12 Lead (Double Delta) Single Phase

Controller Options

- DSE 3110
- DSE 7110 (Standard)
- DSE 7310
- NFPA 110 Level 1
- 16 Light Remote Annunciator
- Remote Display Panel (DSE 2510)
- Ethernet
- DSE 2130 Input Expansion
- DSE 2751 Output Expansion
- LP Liquid Withdrawal

Limited Warranties

WINCO warranties its product from material defects for 1 yr/1000 hours. PSI's limited engine warranty is 3 yrs/3500 hours.

Specifications subject to change without notice.