



HSD21 Home StandBy Diesel Generator

Generator Set rating

120/240 Volts, Single phase, 60Hz

KW output PF = 1.0

Standby output 21KW

Current 174/87A

Prime output 19KW

Current 158/78A

Sound Level @ 23 ft.

Unloaded 70 dBA

Fuel Tank

Capacity 23 gal.

AC Generation Equipment

is our business at GENMAC. Our AC power systems offer a first-rate solution to requirements for Reliable, High Quality Electrical Power for the Residential owner.

All units are:

- 100% full load tested
- Performance supported by prototype testing
- Capacitive Regulated Generator for exceptional motor starting capability and high reliability



Product Features

System Reliability and Longevity

begin with design experience and integrity. GENMAC has been producing Generator Sets for over 20 years. The company is situated in the area world renown for automotive and electromechanical manufacturing. This has allowed us to assemble a staff of design and manufacturing personnel who are second to none. The

knowledge and experience in designing and manufacturing with state-of-the art power generation equipment is built into our complete line of generator sets.

Single Source Responsibility:

Product service, support and parts are available through the GENMAC network of distributors.

Accessories and Flexibility

are designed into GENMAC's generator sets at the factory level to meet residential application needs.

The GENMAC mission

To provide the world with safe, reliable, high quality power generation equipment to allow anyone in the world to realize their full potential.



HSD21 Home StandBy Diesel Generator

Standard Equipment

- 4 Cycle Liquid cooled diesel engine
- Battery Charging alternator
- Single stage dry type air cleaner
- Integral Muffler w/ rain cap
- Sound attenuated Outdoor Enclosure
- Glow plugs
- 12VDC engine electrical systems
- 12V starting motor
- Low fuel switch
- Dirty Air Filter switch
- Capacitive Regulated Brush- less Alternator
- Tropical Treated Alternator
- Steel base with vibration isolators between engine, generator and the base.
- Under Base stub up area for hidden wiring access
- Integral Control Box behind a locked door
- Mainline circuit breakers located in the lockable Control Box
- Single connection area for main AC terminals and all control wiring
- On board Utility powered AC battery charger
- Utility Present Light
- Battery rack tie down bar and Cables
- In Base Fuel Tank and gauge
- In Base Oil drain
- In Base Coolant drain
- All steel parts are powder paint coated and tropical treated
- Corrosion resistant hardware
- Interior light
- Thermostatically controlled Coolant Heater
- In Base Fuel Tank and gauge

- Microprocessor based, fully programmable auto start control panel with metering and security
 - Integral programmable ATS control logic built into System controller
 - Exercise without load capability for unattended operation
 - Digital read out control system with the following accessible standard displays:
 - Utility Voltage L-L
 - Generator Voltage L-L
 - Generator Frequency
 - Battery Voltage
 - Operating hours
 - Additional information available on the controller display are:
 - ATS switch position
 - Engine run / on
 - Generator run / on
 - Error in code detailed on the controller face
 - Test, manual, automatic and Reset buttons
 - Remote manual switching of ATS from the control panel
 - Shut down:
 - High engine temp
 - Low oil Pressure
 - Cranking Failure
 - Over speed
 - High voltage generator
 - Low voltage generator
 - Under frequency
 - Warning:
 - High Battery Voltage
 - Low Battery Voltage
 - Dirty Air Filter
 - Common alarm relay output

- Exceed programmable Maintenance hours warning error code
- Automatic test function
- Low fuel shutdown to prevent emptying fuel system

Options:

- Complete remote control and operation by:
 - Direct PC interface able with cable and software
 - Modem capable for remote control over dedicated phone line
 - Wireless hook up to RS232 port Capable
- Remote Alarm Annunciator
- Automatic transfers switches for any application
- External Emergency Stop
- Extended Run time, under Base tanks
- Will operate with Standard 2 wire ATS
- 2 Programmable Digital inputs for shut down or warning
- Capable of external start / stop operation
- Capable of single phase 110V operation
- Capable of operating more than one ATS
- Project engineering help available for "Specials"



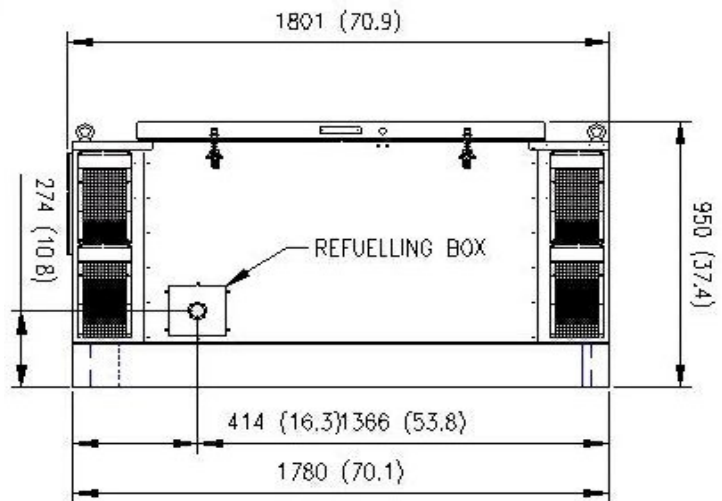
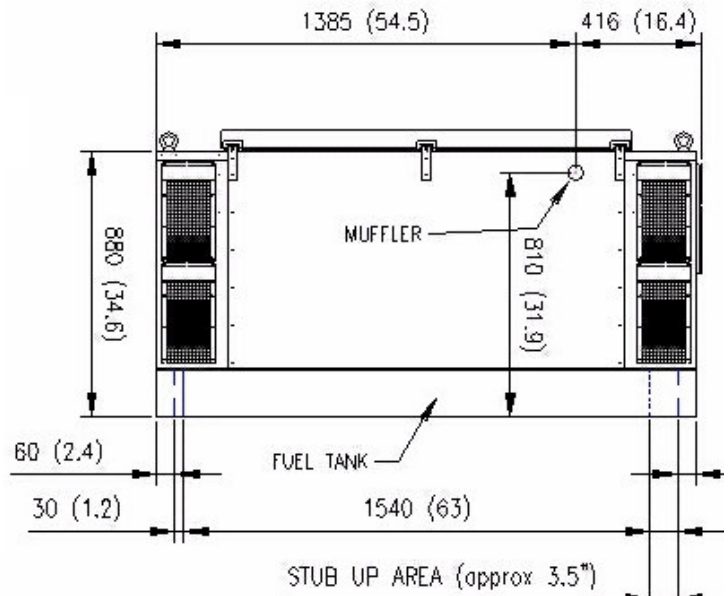
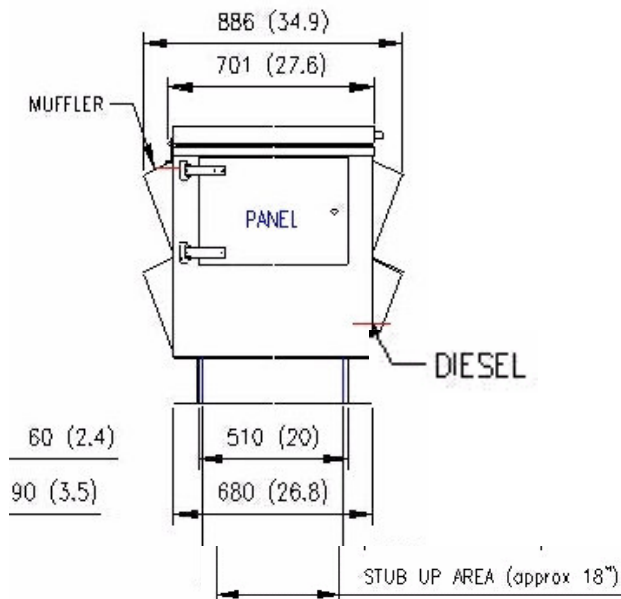
HSD21 Home StandBy Diesel Generator

Technical Specifications Model MPSD 21

Engine Specifications:		Generator	
Manufacturer-hp	Lombardini	Generator MFG.	Sincro
Model	LDW 2004 T	Type	KS140 L M4BL
Intake System	Turbo Charged	Model	20kVA (240V – 60Hz)
Cylinders	In-line 4	Speed	1800 RPM
Displacement	2068 cc	Rated Voltage	120/240 60Hz
Bore and Stroke	88 X 85mm	Rated Power	20.0 KVA
Compression ratio	22.1:1	Voltage Accuracy	Approx. +/- 5%
HP	36.7HP @ 1800rpm	Motor Starting kVA	
Governor	Mechanical	(At 35% Dip,	
Cooling system	Pressurized, Closed recovery	100% voltage recovery)	35.2 SkVA
Lubrication System	Pressurized oil	Over speed	2160 RPM
Oil Capacity w/ Filter	1.4 gal.	THD	Approx. 5%
Fuel Consumption		Protection	IP 33
(at 100% load)	2.2 gal per hour	Cooling flow	5.1 Cubic Meters / min
		Insulation Class	
Cooling System Cap.	2.4 gal.	Stator	F
		Rotor	H
Generator Set			
Frequency variation	58.6 to 62.2 Hz		
Nominal Sound Level	70dBA		
	@ 23FT No Load		
Derating Factors:			
for every 328 ft above Sea Level	3.5%		
for every 10 Deg. F above 77 Deg F	1.0%		
Dry Weight:	1,272 lbs.		
Basic footprint:	71 x 35 x 37.5inches		



HSD21 Home StandBy Diesel Generator



Optional Under Base Tanks

- Under Base tanks available to provide extended run capability
- Tank has identical foot print as system – Volume determines height
- Under base tanks require the removal of the in base tank

Part #	Description	Height
	UL, 50 gal. Double wall with Electronic fuel gauge	18.00"
	UL, 135 gal. Double wall with Electronic fuel gauge	36.00"

Mechanical Layout



12355 S.W. 129 Court # 1

MIAMI, FL 33186

Tel: (305) 254-4545

Fax: (305) 254-4558

Toll free (877) 254-4541

Email genmacusa@genmac-group.com

www.genmac-group.com

All Specifications are subject to change with out notice.
Made in Italy

Distributed By