

HSY STANDBY DIESEL GENERATOR SET

MODEL

HSY-10











60Hz STANDBY





VOLTAGE VAC	120/240 V	120/208V	139/240V	277/480V	347/600V**
RATING	Standby	Standby	Standby	Standby	Standby
PHASE	1	3	3	3	3
PF	1.0	0.8	0.8	0.8	0.8
HZ	60	60	60	60	60
KW	8.2	8.6	8.6	8.6	8.6
KVA	8.2	10.8	10.8	10.8	10.8
AMPS	34	24	21	10.3	8
SKVA@30% VOLTAGE DIP	N/A	N/A	N/A	N/A	N/A
MLCB (AMPS)	N/A	N/A	N/A	N/A	N/A

Description

HIPOWER HSY generators are an efficient, reliable and versatile source of mobile electrical power. Designed to operate in the most extreme working conditions. All HIPOWER® HSY Generators combine an innovative design and the use of high quality materials that provide the user with the most dependable power that you can rely on for non-stop power with easy to operate controls. Powered by a radiator-cooled, industrial YANMAR Diesel engine, which meets current Environmental Protection Agency (EPA) TIER 4 Interim exhaust emission regulations, driving a single bearing, four-pole, three-phase alternator, with IP23 protection. The Standby kVA rating for generator set is given with a 125 °C alternator winding temperature rise.

HIPOWER® Features and Benefits

YANMAR Diesel Engine: Long-life, heavy-duty, 4-cycle, direct injection engine for economy of operation and maximum reliability and durability. Capable of full rated load acceptance in one step.

Cooling: Radiator with belt driven pusher fan.

Air Filter: Heavy-duty replaceable element air-cleaner.

Alternator: Single bearing, rotating field, self-excited, self-ventilated, 12-wire re-connectable, and 4-wire dedicated for single phase version, 60Hz brushless alternator, Class H insulation. Automatic voltage regulator (AVR) providing close voltage regulation and skVA starting capability for electric motor loads.

Certification: ISO 8528-5.

HIPOWER® Features and Benefits

Enclosure: Fabricated in 11-gauge steel, powder coated with finish that exceeds 1400-hr salt spray test, minimum outside fasteners and four points lift. Vertical air discharge for quiet operation. Wide steel lockable access doors with seals, easy access for maintenance and service activities, lift off stainless steel hinges, corrosion resistant hardware and fasteners.

Exhaust: Low noise, steel residential-type exhaust silencer.

Fuel Filtration: Standard and secondary water separator with visible level on fuel filters.

Controls: Digital control panel with manual and automatic start and stop features. Many programmable automatic functions for local and remote controls with LED lights, tamper proof engine hour recorder. Load Connections: Covered distribution panel for easy access to cable power outlets, receptacles, lugs and Camloks.

Codes and Standards Compliances used where applicable











APPLICATION DATA

YANMAR
3TNV76GGEH
Tier 4 Interim
1,800 rpm
Diesel, 4-stroke
Direct
Natural
3
In-line
68 (1.115)
2.99 X 3.22 (76 x 82)
14.3 hp
Liquid
Electronic
ISO 8528 Part 1 Class G3
Isochronous
12 volt
19.0:1
Dry - light duty, single stage
91.8 (2.6)
1040 (560)
39.3 (9.8)
1465 (41.6)
148.3 (4.2)
1649 (46.7)
1 (3.7)
131 (55)
0.92 (3.5)
0.92 (3.5)
Water - cooled
SAE 10W30 - API (CF, CF-4, CI-4) - refer to owners manual
0.14% of fuel
0.04 (0.343)
40
12 volt
40 Amp DC12V -40A

ANSI







APPLICATION DATA

FUEL SYSTEM	
Recommended fuel	# 2 - ULSD
Fuel supply line, min. ID mm(in.)	0.19 (9)
Fuel return line,min. ID, mm (in.)	0.19 (9)
Max. lift, fuel pump, type, m (ft)	1.85 (6)
Fuel filter	Replaceable Element
FUEL COMPSUNTION	Standby Power Rating
100% load - US gallons/hour	1.46
75% load - US gallons/hour	1.09
50% load - US gallons/hour	0.73
25% load - US gallons/hour (liters)	0.36
ALTERNATOR SPECIFICATION	
Manufacturer	STAMFORD
Model	S0L1-L1 - S0L1-H1
Voltages	120/240V (1 PH) - 120/208 (3 PH)
Alternator Type	Four pole, rotating field
Excitation System	Brushless
Power factor	1/0.8
Number of leads	12 leads, reconnectable (three phase) - 4 leads dedicated (Single phase)
Stator Pitch	2/3
Insulation	Class H
Windings – Temperature Rise	125/40° C
Enclosure (IEC-34-S)	IP23
Bearing	Single, sealed
Coupling	Flexible disc
Amortisseur windings	Full
Voltage regulation – no load to full load with AS480 AVR	± 1%
TIF	<50
Radio Frequency Emissions compliance	Meets requirements of most industrial and commercial applications
Line harmonics	5% maximum
STANDARD ACCESSORIES	
Radiator with pusher fan	Main line circuit breaker for overload protection
Control Panel PowerEdge (See over for details)	Heated Control Panel

OPTIONAL ACCESSORIES	
Different fuel tank size	Lifting Kit
Battery switch	Water Jacket heater
Water separator filter	Double silencer configuration

MEMBER A









CONTROL SYSTEMS STANDARD FEATURES - Generator Digital Control Panel

HIPOWER® Control Panel: Hipower digital controller with auto and manual start capability. Digital readout for: volts between each phase & neutral, volts between phases, amps per phase, frequency, kW and kVA power, power factor, KW hour with accumulation by day, month and year, fuel reserve, oil pressure, coolant temperature, battery volts and charging alternator volts, engine speed, hours running. Engine alarms for high coolant temperature, low oil pressure, emergency stop activated, battery charging failure, low coolant level, low fuel level, over-speed, under-speed and low battery volts.

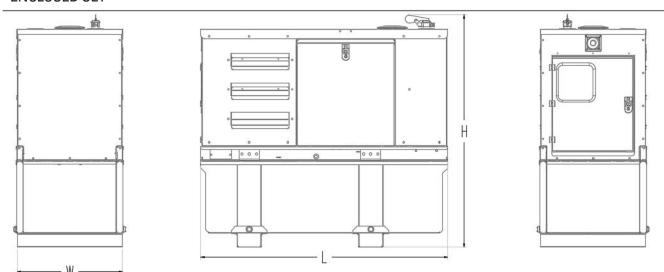
Engine alarms included: High coolant temperature, low oil pressure, low coolant level, unexpected shutdown, low fuel level, stop failure, low battery voltage, battery charging alternator failure, over-speed, under-speed, start failure and emergency stop. Support of engines with ECU (J1939, Modbus and other proprietary interfaces); alarm codes displayed in text form.



Alternator alarms included: Overload, unbalanced voltage, over voltage, under voltage, over frequency, under frequency, short circuit and reverse power.

DIMENSIONS, WEIGHTS & SOUND LEVELS

ENCLOSED SET



CONFIGURATION	Fuel Tank Data		Generator Data *				
	Run Time Hours	Capacity (Gals)	L = Length	W = Width	H = Height	Weight lbs	dBA
Enclosed Set	18	26.4	67.9"	29.5"	49.4"		63
Enclosed Set	25	37	67.9"	29.5"	51.4"		63
Enclosed Set	32.5	47.5	67.9"	29.5"	53.3."		63
Enclosed Set	40.6	59.4	67.9"	29.5"	55.3"		63
Enclosed Set	69	101.7	67.9"	29.5"	63.2	1,393	63











HIMOINSA POWER SYSTEMS, INC.