

MODEL

HSY-10



60Hz STANDBY

8.6kW/60Hz/STANDBY/1800RPM



VOLTAGE VAC	120/240V	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 Camlocks.

HIMOINSA POWER SYSTEMS, INC.

16600 S. Theden Street, Olathe, KS 66062

Tel: 913 495 5557 | Fax: 913 495 5575 www.hipowersystems.com

Codes and Standards Compliances used where applicable



APPLICATION DATA

ENGINE SPECIFICATION

Manufacturer	YANMAR
Model	3TNV76GGEH
EPA certified	Tier 4 Interim
Crankshaft speed	1,800 rpm
Type	Diesel, 4-stroke
Injection	Direct
Aspiration	Natural
Number of Cylinders	3
Cylinder arrangement	In-line
Displacement CID (liters)	68 (1.115)
Bore and Stroke ins (mm)	2.99 X 3.22 (76 x 82)
Nominal power	14.3 hp
Cooling	Liquid
Governor	Electronic
Governor Regulation Class	ISO 8528 Part 1 Class G3
Frequency Regulation	Isochronous
Starting motor & alternator	12 volt
Compression ratio	19.0:1
Air cleaner type	Dry - light duty, single stage
Exhaust gas flow cu. ft./minute (cu.m. /minute)	91.8 (2.6)
Max. Exhaust temp at full load degrees °F (°C)	1040 (560)
Max. permissible back pressure - ins H2O (kPA)	39.3 (9.8)

COOLING SYSTEM

Engine cooling air flow - cu. ft./min (cu. m/min)	1465 (41.6)
Alternator cooling flow - cu. ft./min (cu. m/min)	148.3 (4.2)
Total cooling air flow (engine + alternator + combustion) - cu. ft./min (cu. m/min)	1649 (46.7)
Total cooling capacity - US gallons (liters)	1 (3.7)
Max. Operating Temperature °F (°C)	131 (55)

LUBRICATION SYSTEM

Oil pan capacity - US gallons (liters)	0.92 (3.5)
Oil pan capacity with filter - US gallons (liters)	0.92 (3.5)
Oil cooler	Water - cooled
Recommended lubricating oil grade	SAE 10W30 - API (CF, CF-4, CI-4) - refer to owners manual
Oil consumption at full load	0.14% of fuel
Oil pressure – psi (kPA)	0.04 (0.343)

ENGINE ELECTRICAL SYSTEM

Starting motor voltage	12 volt
Cold Cranking Amps - minimum	40 Amp
Battery charging Alternator	DC12V -40A
Battery capacity	740 Amps

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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

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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.

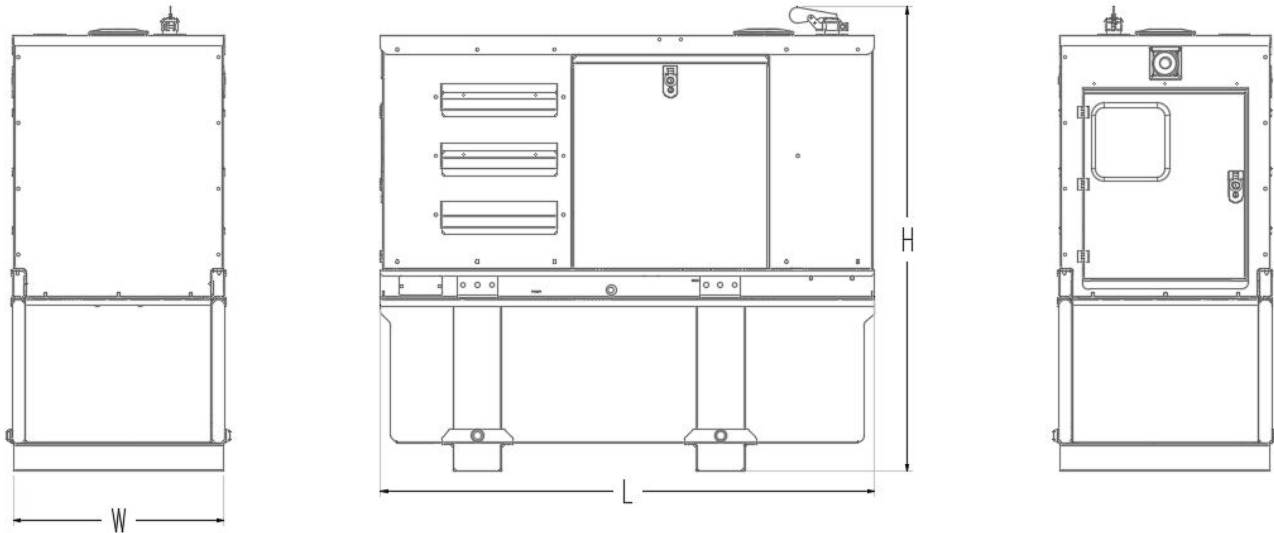
Engine alarms included: High coolant temperature, low oil pressure, low coolant level, unexpected shutdown, low fuel level, stop failure, low battery voltage, battery charging alternator failure, over-speed, under-speed, start failure and emergency stop. Support of engines with ECU (J1939, Modbus and 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

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