





The enclosure is designed to guarantee 55db(A) at 7 meters in a free field, and optimum performance in all conditions. Fully designed on modular principles, the enclosure permits an easy on-site repair, thanks to the easy interchangeable panels.

The enclosure, fully made of cold galvanized steel sheet, fixed with steel bolts and rivets. The absence of welding in all the components of the enclosure and the high resistance epoxy powder painting, allowing extreme durability, robustness and high resistance to corrosion over time, even outdoors.

The low noise emission level, in compliance with the European Community Directive 2005/88/CE, thanks to the continuous investment in research, and the development by our specialized engineers.

The enclosure is fully weatherproof and incorporates the full exhaust silencing system internally.

About the Security and Safety; the genset incorporates a control panel observed trough a large viewing window in the lockable enclosure door, an Emergency stop push button mounted on enclosure exterior above the control panel, and all the electrical components fully guarded.

All the insulation material used, is made with sound absorbing materials with Euroclass A1 fire resistance certificate.

Standard reference conditions: temperature 25°C, altitude 100m asl, relative humidity 30%, atmospheric pressure 100 kPa (1 bar), power factor 0.8 lag, balanced load - non distortional. Fuel consumption is nominal and refers to diesel specific weight 0,850kg/l and conforming to BS2869, Class A2. Sound power values refer to free field conditions: the installation site may influence the values. Dimensions, weights and other specifications contained in the technical data sheet and related attachments are nominal, subject to tolerances and refer to the model with standard equipment; any optional and additional equipment/accessories can modify weight, dimensions, performance.



General Information

Automatic Diesel Generator Set Model: H20Y5				
Voltage / Frequency	r.p.m.	PRP (Prime Power)*	LTP (Standby)*	
200-400V/50Hz	1500	18kVA	20kVA	
I	1800	I	I	

^{*}Ratings at 0.8 power factor

Weights: kg	
Net (only generator)	1395
Wet (+ lube oil & coolant)	1
Fuel, lube oil & coolant	/

Dimension: mm		
Canopy Model	HUSH 55	
Length	2400	
Width	1200	
Height	1750	
Tank	175 L	



Engine Brand	Yanmar	
Engine Model	4TNV88-BIB	
Cylinders	4	V
Speed	1500	R.p.m.
Displacement	2,190	L
Air Intake	NATURALLY ASPIRATED	
Standard Voltage	12	V
Cooling	LIQUID	
Flywheel P.R.P. Power	-	kWm
Flywheel L.T.P. Power	-	kWm
Fuel Cons. at 100% (L.T.P.)	-	g/kWh
Fuel Cons. at 100% (P.R.P.)	-	g/kWh
Fuel Cons. at 75% (P.R.P.)	-	g/kWh
Fuel Cons. at 50% (P.R.P.)	-	g/kWh
Fuel Cons. at 25% (P.R.P.)		g/kWh
Engine Speed Regulator	MECHANICAL	
Governing Class	ISO 8528	
Emission Class	STAGE V	



Definitions

P.R.P.

Output available with varying load for an unlimited time. Average power output is 70% of the prime power rating. Typical peak demand is 100% of prime rated ekW with 10% overload capability for emergency use for a maximum of 1 hour in 12.

Overload operation cannot exceed 25 hours per year.

L.T.P.

Output available with varying load for the duration of the interruption of the normal source power. Average power output is 70% of the standby power rating. Typical operation is 200 hours per year, with maximum expected usage of 500 hours per year.

Standard on the engine

- Dry filters on the intake,
- Feed pump,
- Oil and diesel filters,
- Radiator with thermostatic valve,
- Electric start with starter motor, alternator and voltage regulator,
- Switch for low oil pressure alarm,
- · Switch for high water temperature alarm,
- Manual pump emptying oil from the cup,
- Standard radiator,
- · Lead acid battery,
- Residential exhaust muffler



Alternator Information

Alternator Brand	Leading brand alternator	
Alternator Model	-	
P.R.P. Power	20	kVA
Phase	3 Phase	
Precision	+/- 0.5%	
Insulation Class	Н	
IP Protection	23	
Pole	4	
Power Factor	0.8	cosfi

Definitions

Continuous rating 40°C - IEC 60034-1

Running at constant load limited to the insulation class; permissible overload 1 hour in 12.

Standby rating 40°C

Running at constant load **without** over load, for a limited duration of maximum 500h/year, with a permissible increase of the temperature rise above class H.

Standby rating 27°C

Same conditions than standby duty 40°C but with acceptance of a lower ambient temperature (27°C) that allows to increase the rating and the temperature rise for the same level of temperature in the alternator.



General Features

Compliance with internationally recognized standard

All the range and brand of the alternator that we use on our generator complies with international standards and regulations: IEC 60034 and derivative.

All the range and brand of the alternator that we use on our generator are designed, manufactured and marketed in an ISO 9001 and ISO 14001 environment.

Electrical features

Frequency

All the alternator used in our generator may operate either 50 or 60 Hz.

Power factor P.F.

All the alternator used in our generator are designed to operate between 0.8 and 1 power factor.

Waveform

Total harmonic distortion (THD), at no load or linear load is less than 5% according to IEC.

TIF/Telephone influence factor according to NEMA is less than 50.

Transient features

Transient voltage dip for rated step load at 0.8 power factor is less than 18%.

Recovery time for a 20% transient voltage dip is less than 0.5s.

Overload acceptance

All the alternator used in our generator can be overloaded according to NEMA.

• EMI suppression

All the alternator used in our generator are provided with an EMI suppression device in accordance with EN 55011.



Mechanical features

• Enclosure

Standard enclosure is IP23.

Balancing

All the rotors are dynamically balance according to ISO 1940 and NFC 51-111.

Overspeed

The maximum overspeed is 2250 min.

• Insulation and protection

All the alternator used in our generator are class H insulated. The standard winding protection can accept up to 95% relative humidity.

Mechanical structure

Steel frame. Aluminium, cast iron or steel housing and flanges depending on the model.



AMF Brand	ComAp
AMF Model	InteliLite AMF25
Standard Characteristic	Single gen-set controller for Stand-by and Primepower applications
	Direct communication with EFI engines
	Total remote monitoring and control
	Easy to install, configure and use
	Wide range of communication capabilities including:
	connection via RS232, RS485, CAN and on board USB
	• internet access using Ethernet, GPRS or 4G
	support for Modbus and SNMP protocols
	Internal PLC support with PLC editor and monitor included in LiteEdit
	Cloud-based monitoring and control via WebSupervisor
	Active SMS and emails in different languages
	SNMP traps
	Geofencing and tracking via WebSupervisor
	2x 10 A binary outputs for cranking and fuel solenoid
	Option for up to 16 additional binary inputs/outputs
	Flexible event based history with up to 350 events
	Load shedding, dummy load capability
	Tier 4 final support
	Automatic temperature based cooling/heating
	Comprehensive gen-set protections
	Multipurpose flexible timers
	True RMS measurement
	Available also in low temperature (LT) version



General Features

Ambient conditions

Operating temperature: -30 to+70°C

Storage temperature: -30 to +80°C

Relative humidity: <80% (IEC/EN 60068-2-78)

• Maximum pollution degree: 2

Overvoltage category: 3

Measurement category: III

Climatic sequence: Z/ABDM (IEC/EN 60068-2-61)

Shock resistance: 15g (IEC/EN 60068-2-27)

Vibration resistance: 0.7g (IEC/EN 60068-2-6)

Housing

Version: Flush mount

Material: Polycarbonate

Degree of protection: IP65 on front, IP 20 terminals

Certifications and compliance

Certifications obtained: cULus, EAC

UL Marking:

• Use 60°C/75°C copper (CU) conductor only

AWG Range: 24 - 12 AWG stranded or solid

Field Wiring Terminals Tightening Torque: 5lb.in

 Comply with standards: IEC/EN 61010-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, UL508, CSA C22.2 N°14