



Generating Rates

SERVICE		PRP	STANDBY
Power	kVA	15,7	17,2
Power	kW	15,7	17,2
Rated Speed	r.p.m.	1.500	
Standard Voltage	V	240	
Rated at power factor	Cos Phi	1	

HIMOINSA Company with quality certification ISO 9001

HIMOINSA gensets are compliant with EC mark which includes the following directives:

- 2006/42/CE Machinery safety.

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 2014/35/UE electromagnetic compatibility.
 2014/35/UE electrical equipment designed for use within certain voltage limits
 2000/14/EC Sound Power level. Noise emissions outdoor equipment. (amended by 2005/88/EC)
 97/68/EC Emissions of gaseous and particulate pollutants. (amended by 2002/88/EC & 2004/26/EC)
 EN 12100, EN 13857, EN 60204

Ambient conditions of reference according to ISO 8528-1:2005 normative: 1000 mbar, 25°C, 30% relative humidity.

Prime Power (PRP)

According to ISO 8528-1:2005, Prime power is the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. The permissible average power output (Ppp) over 24 h of operation shall not exceed 70 % of the PRP.

Emergency Standby Power (ESP): According to ISO 8528-1:2005, Emergency standby power is the maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 h of operation per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. The permissible average power output over 24 h of operation shall not exceed 70 % of the ESP

G2 class load acceptance in accordance with ISO 8528-5:2013

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ISO 9001

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HYW-20 M5 INDUSTRIAL RANGE Standard soundproofing Powered by YANMAR

Engine Specifications 1.500 r.p.m.

ENGINE PR		PRP	STANDBY
Rated Output	kW	19,1	21
Manufacturer		YANMAR	
Model		4TNV84	TBGGEH
Engine Type		4-stroke	e diesel
Injection Type		Dir	ect
Aspiration Type		Turboc	harged
Number of cylinders and arrangement		4.	-L
Bore and Stroke	mm	84 >	< 90
Displacement	L	1,995	
Cooling System		Coolant	
Lube Oil Specifications		SAE 3 class 10W30 / API grade CD,CF	
Compression Ratio		18,9	
Fuel Consumption Standby	l/h	5,47	
Fuel Consumption 100% PRP	l/h	4,95	
Fuel Consumption 75 % PRP	l/h	3,75	
Fuel Consumption 50 % PRP	l/h	2,72	
Lube oil consumption with full load	g/kWh	0,27	
Total oil capacity	L	7,4	
Total coolant capacity	L	5,8	
Governor	Туре	Mechanical	
Air Filter	Туре	Dry	
Inner diameter exhaust pipe	mm	34	l,7

Generator

Generator			
Manufacturer		STAMFORD	
Poles	No.	4	
Connection type (standard)		Series	
Mounting type		S-4 7,5"	
Insulation	Class	H class	
Enclosure (according IEC-34-5)		IP23	
Exciter system		Self-excited, brushless	
Voltage regulator		A.V.R. (Electronic)	
Bracket type		Single bearing	
Coupling system		Flexible disc	
Coating type		Standard (Vacuum impregnation)	







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Application Data

Exhaust System		
Maximum exhaust temperature	٥C	450
Exhaust Gas Flow	m³/min	5,24
Maximum allowed back pressure	mm H ₂ O	1000
Exhaust Flange Size (external diameter)	mm	50

Necessary Amount Of Air		
Intake air flow	m ³ /h	116,71
Cooling Air Flow	m ³ /s	0,8
Alternator fan air flow	m ³ /s	0,09

Starting System		
Starting power	kW	1,4
Starting power	CV	1,9
Recommended battery	Ah	92
Auxiliary Voltage	Vdc	12

Fuel System		
Fuel Oil Specifications		Diesel
Fuel Tank	L	190

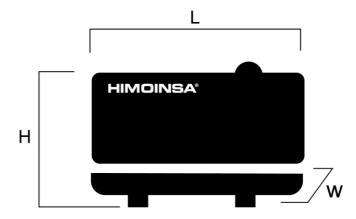






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Dimensions



B10 Weight and Dimensions		
(L) Length	mm	2.100
(н) Height	mm	1.410
(W) Width	mm	975
Maximum shipping volume	m ³	2,89
Weight with liquids in radiator and sump	kg	892
Fuel tank capacity	L	190
Autonomy	Hours	51
Sound pressure level	dB(A)@7m	57 ± 2,3
(*) (with standard accessories)	HIGH CAPACITY	VERSION (Steel tank)

Australia has the right to modify any feature without prior notice.

Weights and dimensions based on standard products. Illustrations may include optional equipment. Technical data described in this catalogue correspond to the available information at the moment of printing.

Industrial design under patent.

Local Distributor







Control Panel M7

Control & Power Panel

- 1. CM Control Panel.
- 2. CP Power Panel.
- 3. On/Off Switch..
- 4. Emergency Stop.
- 5. Main Line Circuit Breaker for overload protection.
- 6. Main bus /hardwire connection panel with safety protection.

M7 Key-start control panel

The M7 device is a monitoring and control electronic system for electrical engine generator sets .

The M7 device is a compact module place in the front panel that develops the following features :

• User's interface. The M7 controller provides information about the status of the generator set and, at the same time, allows the user to interact with it; using M7 keyboard, user is able to configure the functions of the unit.

Generator set signals

- Phase to neutral voltage
- Phase to Phase voltage
- Phase current
- Frequency
- Real, apparent and reactive power
- power factor





M7 controller allows to check the last 100 failures registered and a detailed information of the generator set of the last 10 failures.

• Generator set control. M7 controller keep the generator set in working order, including engine control and electrical signal monitoring the generator set, including engine and electrical signal. Every signal, sensor and actuator is connected to the rear part of the M device.

Engine signals

- Fuel reserve
- Oil pressure
- High coolant temperature
- Coolant level
- Emergency stop
- Battery charger alternator voltage
- Battery voltage

Generator set outputs

- Preheating
- Engine control (fuel output or stop pulse)

HIMOINSA

- Crank output
- Battery charging alternator excitation.
- General warning output

CEM7

Optional Automatic Controller CEM7

The CEM7 is an Auto-start digital controller which is equipped on Himoinsa generator sets, which is able to control the operation, monitoring and protection of a generator-set.

Controller Display:

- Valtage between each Phase& Neutral
- Valtage between Phases
- Current (amps) on each Phase
- Frequency
- Active, Aparent,& Reactive Power
- Power Factor
- Instant Power (kwH) and Accumulative power - Fuel level
- Oil pressure, coolant temperature
- Battery voltage, battery charging alternator voltage
- Engine Speed
- Hours running

Engine Alarms:

- High coolant temperature
- Low oil pressure
- Emergency stop
- Battery charging alternator
- Low coolant lewel
- Over Speed
- Under speed
- Low fuel level by sensor
- Battery low voltage

Generator Alarms:

START

- Over-load
- Unbalanced voltage
- Over-voltage
- Under-voltage
- Over-frequency
- Under-frequency
- Short-circuit
- Inverse Power
- Asymmetry among phases





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Optional Sockets Boxes

Position: Mounted in rear panel, above alternator.

Socket Boxes CBR40



Socket type 3 x 15A 2P + T 1 x 32A 3P + N + T HYW-20 M5 INDUSTRIAL RANGE Standard soundproofing Powered by YANMAR

Socket Boxes CBR41



Socket type 3 x 15A 2P + T 2 x 32A 3P + N + T

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MODEL HYW-20 M5 INDUSTRIAL RANGE Standard soundproofing Powered by YANMAR

Generator set features

Engine

- · Diesel engine
- · 4-stroke cycle
- $\cdot \text{ Water-cooled}$
- 12V electrical system
- Radiator with blower fan
- · Water separator filter (visible level)
- Mechanical governor
- · Dry air filter
- · Hot parts protection
- · Moving parts protection

Alternator

- · Self-excited and self-regulated
- 4 poles
- · AVR governor
- IP23 protection
- · H class insulation
- Flexible disc coupling

Electrical system

- · Electric control and power panel with measurements devices and control unit (according to necessity and configuration)
- · Battery charger
- · 2-pole thermal magnetic circuit breaker
- · Battery charger alternator with ground connection
- · Starter battery/ies installed (cables and bracket included)
- · Ground connection electrical installation with connection ready for ground spike (not supplied)
 - Battery isolator
 - · Heating resistor

Soundproofed version

· Steel chassis

Optional :

- Anti-vibration shock absorbers
- Emergency stop button
- \cdot Bodywork made from high quality steel plate
- · High mechanical strength
- \cdot Low level of noise emissions
- \cdot Soundproofing provided by high-density volcanic rock wool
- · Epoxy polyester powder coating
- \cdot Full access for maintenance (water, oil and filters, no need to remove the bonnet)
- · Reinforced lifting hooks for crane hoisting
- · Chassis drain plug

Optional :

- · Steel residential silencer -35db(A) attenuation.
- · Oil sump extraction kit
- · IP Protection according to ISO 8528-13:2016
 - 3-way valve fuel filling (available in 1/2" and 3/8" fittings)
 - \cdot Galvanized slide carriage and brackets for transportation with forklift
 - Fuel transfer pump



