



HIMOINSA

HYW-45 T5

INDUSTRIAL RANGE
Powered by YANMAR



SERVICE		PRP	ESP
POWER	kVA	41	45
POWER	kW	33	36
RATED SPEED	r.p.m.	1.500	
STANDARD VOLTAGE	V	415/240	
AVAILABLE VOLTAGES	V	400/230	
RATED AT POWER FACTOR	Cos Phi	0,8	



INDUSTRIAL RANGE

AUSTRALIA Company with quality certification ISO 9001

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

- 2006/42/CE Machinery safety.
- 2014/30/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)
- EN 12100, EN 13857, EN 60204

Ambient conditions of reference according to ISO 8528-1:2018 normative: 1000 mbar, 25°C, 30% relative humidity.

Prime Power (PRP):

According to ISO 8528-1:2018, 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 8528-1:2018, 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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Subsidiaries:

PORTUGAL | POLAND | GERMANY | UK | SINGAPORE | UAE | PANAMA |
DOMINICAN REPUBLIC | ARGENTINA | ANGOLA | SOUTH AFRICA



STANDARD SOUNDPROOFING



B10



WATER-COOLED



THREE PHASE



50 HZ



DIESEL

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.

The illustrations and images are indicative and may not coincide in their entirety with the product.

Industrial design under patent.





Engine Specifications | 1.500 r.p.m.

Rated Output (PRP)	kW	37,7
Rated Output (ESP)	kW	41,4
Manufacturer	YANMAR	
Model	4TNV98TGGEH	
Engine Type	4-stroke diesel	
Injection Type	Direct	
Aspiration Type	Turbocharged	
Number of cylinders and arrangement	4-L	
Bore and Stroke	mm	98 x 110
Displacement	L	3,319
Cooling System	Coolant	
Lube Oil Specifications	SAE 3 class 10W30 / API grade CD,CF	
Compression Ratio	18,1	

Fuel Consumption ESP	l/h	10,11
Fuel Consumption 100% PRP	l/h	9,16
Fuel Consumption 75 % PRP	l/h	6,94
Fuel Consumption 50 % PRP	l/h	4,89
Lube oil consumption with full load	g/kWh	0,27
Total oil capacity	L	10,5
Total coolant capacity	L	9
Governor	Type	Mechanical
Air Filter	Type	Dry
Inner diameter exhaust pipe	mm	45



- Diesel engine
- 4-stroke cycle
- Water-cooled
- 12V electrical system
- Water separator filter (visible level)
- Dry air filter
- Radiator with pusher fan
- Mechanical governor
- Hot parts protection
- Moving parts protection



Generator Specifications | STAMFORD

Manufacturer	MECCALTE	
Model	ECP32 1M/4	
Poles	No.	4
Connection type (standard)	Star-series	
Mounting type	S-3 11*1/2	
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)



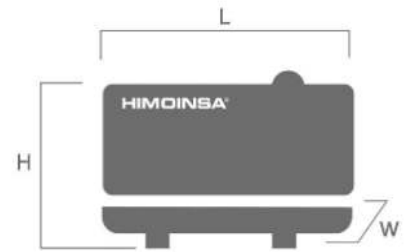
- Self-excited and self-regulated
- IP23 protection
- H class insulation





WEIGHT AND DIMENSIONS

High Capacity version		
Length (L)	mm	2.100
Height (H)	mm	1.410
Width (W)	mm	975
Maximum shipping volume	m ³	2,89
Weight with liquids in radiator and sump	Kg	1011
Fuel tank capacity	L	190
Autonomy	Hours	27



APPLICATION DATA

EXHAUST SYSTEM

Maximum exhaust temperature	°C	480
Exhaust Gas Flow	m ³ /min	10,45
Maximum allowed back pressure	mm H2o	1000
Exhaust Flange Size (external diameter)	mm	65

NECESSARY AMOUNT OF AIR

Intake air flow	m ³ /h	194,16
Cooling Air Flow	m ³ /s	0,979
Alternator fan air flow	m ³ /s	0,09

STARTING SYSTEM

Starting power	kW	2,3
Starting power	CV	3,13
Recommended battery	Ah	92
Auxiliary Voltage	Vdc	12

FUEL SYSTEM

Fuel Oil Specifications	Diesel	
Fuel Tank	L	190



Soundproofed version

- Steel chassis
- Anti-vibration shock absorbers
- Chassis with integrated fuel tank
- Fuel level gauge
- External emergency stop switch
- Bodywork made from high quality steel plate
- High mechanical strength
- Low noise emissions level
- Soundproofing provided by high-density volcanic rock wool
- Epoxy polyester powder coating
- Full access for maintenance (water, oil and filters, no need to remove the canopy)
- Reinforced lifting hooks for crane hoisting
- Watertight chassis (acts as a double barrier against liquid retention)
- Fuel tank drain plug
- Chassis drain plug
- Chassis ready for future mobile kit installation
- Steel residential silencer -35db(A) attenuation.
- Oil sump extraction kit
- Versatility to assemble a high capacity chassis with a metallic fuel tank
- IP Protection according to ISO 8528-13:2016
- Fuel transfer pump (Opcional).





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.

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.

Generator set signals

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

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

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:

- Voltage between each Phase& Neutral
- Voltage between Phases
- Current (amps) on each Phase
- Frequency
- Active, Apparent, & 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 level
- Over Speed
- Under speed
- Low fuel level by sensor
- Battery low voltage

Generator Alarms:

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



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

Socket Boxes CBR41



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



CONTROL PANELS



M6

Manual volt-free contact start panel and thermal magnetic protection (depending on current and voltage) and differential.

Control unit M6



M5

Digital manual Auto-Start control panel and thermal magnetic protection (depending on current and voltage) and differential with CEM7.

Digital control unit CEM7



AS5

Automatic panel WITHOUT transfer switch and WITHOUT mains control with CEM7 unit. (*) AS5 as optional with CEA7 unit. Automatic panel without transfer switch and WITH mains control.



CC2

Himoinsa Switching cabinet WITH display. Digital control unit CEC7



AS5 + CC2

Automatic panel WITH transfer switch and with mains control. The display will be on the genset and on the cabinet.

Digital control unit CEM7+CEC7



AC5

Automatic mains failure control panel. Wall-mounted cabinet WITH transfer switch and thermal magnetic protection (depending on current and voltage).

Digital control unit CEA7



Electrical system

- Electric control and power panel with measurements devices and control unit (according to necessity and configuration)
- 4-pole thermal magnetic circuit breaker
- Battery charger (standard on gensets with automatic control panels)
- Heating resistor (standard on sets with automatic control panels)
- 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 Switch (Opcional).

