



# HIMOINSA

# HRYW-20 T5 AU

RENTAL RANGE  
Powered by YANMAR



SERVICE		PRP	ESP
POWER	kVA	21	23
POWER	kW	16,8	18,4
RATED SPEED	r.p.m.	1.500	
STANDARD VOLTAGE	V	415/240	
AVAILABLE VOLTAGES	V	230/132 · 230 V (t) · 400/230	
RATED AT POWER FACTOR	Cos Phi	0,8	



## RENTAL 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)
- 97/68/EC Emissions of gaseous and particulate pollutants. (amended by 2012/46/EU)
- 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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## SOUNDPROOFED RENTAL



HDBR



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	19,1
Rated Output (ESP)	kW	21
Manufacturer	YANMAR	
Model	4TNV84TBGGEH	
Engine Type	4-stroke diesel	
Injection Type	Direct	
Aspiration Type	Turbocharged	
Number of cylinders and arrangement	4-L	
Bore and Stroke	mm	84 x 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 ESP	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	Type	Mechanical
Air Filter	Type	Dry
Inner diameter exhaust pipe	mm	34,7



- Exhaust gas compensator
- 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 | MECC ALTE

Manufacturer	MECC ALTE	
Model	ECP32 2S/4 B	
Poles	No.	4
Connection type (standard)	Star-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)



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

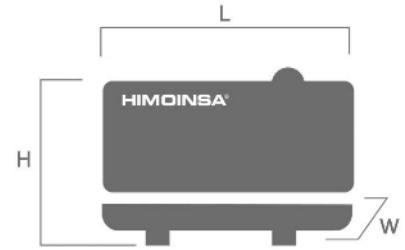




## WEIGHT AND DIMENSIONS

		Standard Version
Length (L)	mm	2.050
Height (H)	mm	1.610
Width (W)	mm	900
Maximum shipping volume	m <sup>3</sup>	2,97
Weight with liquids in radiator and sump	Kg	906
Fuel tank capacity	L	300
Autonomy	Hours	80
Sound pressure level	dB(A)@7m	60 ± 2,4

Steel tank



## APPLICATION DATA

### EXHAUST SYSTEM

Maximum exhaust temperature	°C	450
Exhaust Gas Flow	m <sup>3</sup> /min	5,24
Maximum allowed back pressure	mm H2o	1000

### NECESSARY AMOUNT OF AIR

Intake air flow	m <sup>3</sup> /h	116,71
Cooling Air Flow	m <sup>3</sup> /s	0,8
Alternator fan air flow	m <sup>3</sup> /s	0,088

### STARTING SYSTEM

Starting power	kW	1,4
Starting power	CV	1,9
Recommended battery	Ah	85
Auxiliary Voltage	Vdc	12

### FUEL SYSTEM

Fuel Oil Specifications		Diesel
Fuel Tank	L	300



## Soundproofed version

- Steel chassis
- Anti-vibration shock absorbers
- 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
- 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
- Oil sump extraction kit
- Door with window to visualize control panel, alarms and measurements
- IP Protection according to ISO 8528-13:2016



### Electrical system

- 4-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)
- CBR42R socket boxes consisting of 3x15A (3Ph) and 2x32A (3Ph)
- Battery Switch (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