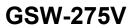
PROUDLY 100% AUSTRALIAN OWNED



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ESTABLISHED 1949



Main Features		
Frequency	Hz	50
Voltage	V	400
Power factor	cos φ	0.8
Phase and connection		3

Power Rating		
Standby power LTP	kVA	275.00
Standby power LTP	kW	220.00
Prime power PRP	kVA	251.48
Prime power PRP	kW	201.18

Ratings definition (According to standard ISO8528 1:2005)

PRP - Prime Power:

It is defined as being 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 over 24 h of operation shall not exceed 70 % of the prime power.

LTP - Limited-Time running Power:

It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 h of operation per year (whose no more than 300 for continuative use) with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. No overload capability is available.

Engine specifications		
Engine manufacturer		Volvo
Model		TAD734GE
[50Hz] Exhaust emission level		Stage II
Engine cooling system		Water
Nr. of cylinder and disposition		6 in line
Displacement	CM ³	7150
Aspiration		Turbocharged intercooled
Speed governor		Electronic
Prime gross power PRP	kW	227
Maximum gross power LTP	kW	250
Oil capacity	I	29
Lube oil consumption @ PRP (max)	%	0.10
Coolant capacity		32
Fuel		Diesel
Specific fuel consumption @ 75% PRP	g/kWh	217
Specific fuel consumption @ PRP	g/kWh	204
Starting system		Electric
Starting engine capability	kW	5
Electric circuit	V	24



The engine performance corresponds to ISO 3046, BS 5514 and DIN 6271. Ratings are based on ISO 8528. Engine speed governing in accordance with ISO 3046/IV, class A1 and ISO 8528-5 class G3

- Engine and block
- Optimized cast iron cylinder block with optimum distribution of forces
- Keystone top compression rings for long service life
- Replaceable valve guides and valve seats
- Fuel system
- Common rail
- Engine mounted fuel pre-filter with water separator
 Eigen fuel filter of contribute incent type
- Fine fuel filter of cartridge insert typeGear driven fuel feed pump
- Gear driven fuel feed Lubrication system
- Rotary displacement oil pump driven by the crankshaft
- Deep front oil sump ,Oil filler on top, Oil dipstick, short in front
- Integrated full flow oil cooler, side-mounted

Cooling system

- · Belt driven, maintenance-free coolant pump with high degree of efficiency
- Efficient cooling with accurate coolant control through a water distribution duct in the
- cylinder block
- Reliable thermostat with minimum pressure drop
- Intake and exhaust system

Alternator Specifications		
Alternator		Mecc Alte
Model		ECO38-1LN/4
Voltage	V	400
Frequency	Hz	50
Power factor	cos φ	0.8
Poles		4
Туре		Brushless
Voltage regulation system		Electronic
Standard AVR		DSR
Voltage tolerance	%	1
Efficiency @ 75% load	%	93.7
Class		Н



Mechanical structure

Robust mechanical structure which permits easy access to the connections and components during routine maintenance check-ups.

Voltage regulator

Voltage regulation with DSR. The digital DSR controls the range of voltage, avoiding any possible trouble that can be made by unskilled personnel. The voltage accuracy is $\pm 1\%$ in static condition with any power factor and with speed variation between 5% and +30% with reference to the rated speed.



Windings / Excitation system

Generator stator is wound to 2/3 pitch. This eliminates triplen (3rd, 9th, 15th ...) harmonics on the voltage waveform and is found to be the optimum design for trouble-free supply of non-linear loads. The 2/3 pitch design avoids excessive neutral currents sometimes seen with higher winding pitches. MAUX (Standard): The MAUX MeccAlte Auxiliary Winding is a separate winding within the main stators that feeds the regulator. This winding enables to take an overload of 300% forced current (short circuit maintenance) for 20 seconds. This is ideal for motor starting requirements.

Insulation / Impregnation

Insulation is of class H standard. Impregnation is made with premium tropicalised epoxy resins by dipping and dripping. High voltage parts are impregnated by vacuum, so the insulation level is always very good. In the high-power models, the stator windings undergo a second insulation process. Grey protection is applied on the main and exciter stator to give enhanced protection.

Reference standards

Alternator manufactured according to , and complies with , the most common specification such as CEI 2-3, IEC 34-1, EN 60034-1, VDE 0530, BS 4999-5000, CAN/ CSA-C22.2 No14-95-No100-95.

BASE FRAME MADE OF WELDED STEEL PROFILE, COMPLETE WITH:

- Anti-vibration mountings properly sized
- Screwed support legs.

METAL FUEL TANK WITH THE FOLLOWING COMPONENT:

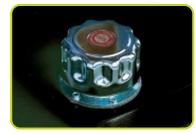
• Filler neck

- Air breather (ventilation pipe)
- Minimum fuel level sensor

ENGINE COMPLETE WITH:

- Battery
- Liquids (no fuel)









• Soundproof canopy made up of modular panels, realized with zinced steel as treatment against corrosion and aggressive conditions, properly fixed and sealed allowing a full weatherproof enclosure.

• Easy access to the genset for maintenance purposes thanks to: Wide lateral access doors fixed by stainless steel hinges and provided with plastic lockable handles and internal perforated galvanized steel-sheet; Detachable panels, with screws holes protected by rubber tap.

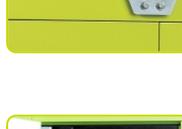
• Control panel protection door provided with suitable window and lockable handle.

• Lateral air inlet opening properly protected and soundproofed. Exhaust air outlet from the roof, trough wet section protected by proper grid.

• Double lifting points frame structure.

SOUNDPROOF:

- Noise attenuation thanks to soundproofing material
- Efficient residential silencer placed inside the canopy





Dimensional data		
Length	(L) mm	3951
Width	(W) mm	1438
Height	(H) mm	2085
Dry weight	Kg	2300
Fuel tank capacity	I	620



Autonomy		
Fuel consumption @ 75% PRP	l/h	44.60
Fuel consumption @ 100% PRP	l/h	55.13
Running time @ 75% PRP	h	13.90
Running time @ 100% PRP	h	11.25

Noise level		
Guaranteed noise level (LWA)	dB(A)	97
Noise pressure level @ 7 mt	dB(A)	68



Installation data		
Exhaust gas flow @ PRP	m³/min	33
Exhaust gas temperature @ LTP	°C	550

Data Current		
Battery capacity	Ah	155
MAX current	А	396.94
Circuit breaker	A	400

Control panel availability	
AUTOMATIC CONTROL PANEL	ACP

ACP - Automatic control panel

Mounted on the genset, complete with digital control unit AC03 for monitoring, control and protection of the generating set, protected through door with lockable handle

DIGITAL INSTRUMENTATION (through AC-03)

- Generating set voltage (3 phases)
- Mains voltage
- Generating set frequency
- Generating set current (3 phases)
- Battery voltage
- Power (kVA kW kVAr)
- Power factor Cos φ
 Hours-counter
- Engine speed r.p.m.
- Fuel level (%)
- · Engine temperature (depending on model)

COMMANDS AND OTHERS

- · Four operation modes: OFF Manual starting Automatic starting Automatic test
- Pushbutton for forcing Mains contactor or Genset contactor
- Push-buttons: start/stop, fault reset, up/down/page/enter selection
- · Remote starting availability
- DC system disconnection switch
- Acoustic alarm

www.pramac.com

- Automatic battery charger
- RS232 Communication port
- Settable PASSWORD for protection level

PROTECTIONS WITH ALARM

- Engine protections: low fuel level, low oil pressure, high engine temperature
- Genset protections: under/over voltage, overload, under/over frequency, starting failure, under/over battery voltage

PROTECTIONS WITH SHUTDOWN

- Engine protections: low fuel level, low oil pressure, high engine temperature
- Genset protection: under/over voltage, overload, under/over battery voltage, battery charger failure
- Circuit breaker protection: III poles
- · Earth Fault included in the control unit

OTHERS PROTECTIONS

- Emergency stop button
- · Panel protected through door with lockable handle

OUT PUT PANEL ACP

Predisposed for remote control optional:	RCG
External Terminal Board (ETB)	Standard



The information is aligned with the Data file at the time of download. Printed on 27/03/2017 (ID 5902)

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