DMY200

Main Features		
Frequency	Hz	60
Voltage	V	220
Power factor	cos ϕ	0.8
Phase		3

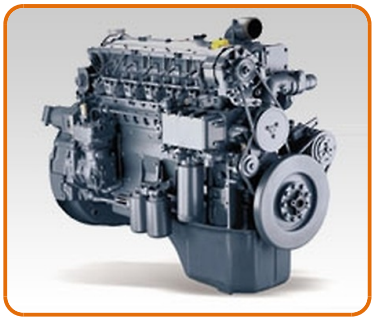
Power Rating		
Standby power LTP	kVA	249.16
Standby power LTP	kW	199.33
Prime power PRP	kVA	224.65
Prime power PRP	kW	179.72

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		Deutz
Model		BF6M1013 FC G3
[60Hz] Exhaust emission optimized for EPA tier (EPA)		Non Emission Certified
Engine cooling system		Water
Nr. of cylinder and disposition		6 in line
Displacement	cm^3	7146
Aspiration		Turbocharged intercooler
Speed governor		Electronic
Prime gross power PRP	kW	204
Maximum gross power LTP	kW	225
Oil capacity	l	20
Lube oil consumption @ PRP (max)	%	0.3
Coolant capacity	l	27.3
Fuel		Diesel
Specific fuel consumption @ 75% PRP	g/kWh	214
Specific fuel consumption @ PRP	g/kWh	221
Starting system		Electric
Starting engine capability	kW	3
Electric circuit	V	12



Engine and block
• Watercooled cylinder in-line engine.
• Turbocharging and turbocharging with charge air cooling.
• Modern high-pressure fuel injection system with single injection pumps.
• All servicing points on one side.
• Exemplarily low fuel and oil consumption, long service intervals save operating costs.
• Outstanding load acceptance ensures immediate power supply.

Cooling system:
• NT cooling system/intercooler mounted
• Pusher-type fan
• Guard

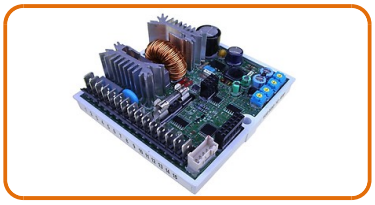
Filter:
• Dry air cleaner mounted, with connection for restriction indicator

Fuel system
• Fuel filter
• Fuel prefilter

Alternator Specifications		
Alternator		Mecc Alte
Model		ECO38-2SN/4
Voltage	V	220
Frequency	Hz	60
Power factor	cos ϕ	0.8
Type		Brushless
Poles		4
Standard AVR		DSR
Voltage tolerance	%	1
Efficiency @ 75% load	%	94
Class		H
IP protection		23

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 ±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.

Genset equipment

BASE FRAME MADE OF WELDED STEEL PROFILE, COMPLETE WITH:

• Anti-vibration mountings properly sized

• Welded or Screwed support legs. (according to canopy size)

PLASTIC FUEL TANK WITH THE FOLLOWING COMPONENT:

• Filler neck

• Air breather (ventilation pipe)

• Minimum fuel level sensor

OIL DRAININ PIPE WITH CAP:

• Oil draining facilities

ENGINE COMPLETE WITH:

• Battery

• Liquids (no fuel)

CANOPY:

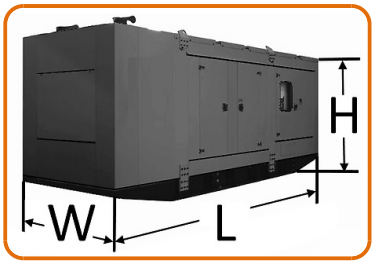
• Soundproof canopy made up of modular panels, realized with zinced steel as treatment against corrosion and aggressive conditions, properly fixed and sealed allowing a full weatherproof enclosure.
• Easy access to the genset for maintenance purposes thanks to: Wide lateral access doors fixed by stainless steel hinges and provided with plastic lockable handles; 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.
• Single detachable lifting eye placed on the roof.

SOUNDPROOF:

• Noise attenuation thanks to soundproofing material

• Efficient residential silencer placed inside the canopy

Dimensional data		
Length	(L) mm	3400
Width	(W) mm	1250
Height	(H) mm	2000
Dry weight	Kg	2514
Fuel tank capacity	l	360
Fuel tank material		Plastic



Autonomy		
Fuel consumption @ 75% PRP	l/h	39.69
Fuel consumption @ 100% PRP	l/h	53.67
Running time @ 75% PRP	h	9.07
Running time @ 100% PRP	h	6.71

Installation data		
Total air flow	m³/min	300.76
Exhaust gas flow @ PRP	m³/min	44.4
Exhaust gas temperature @ LTP	°C	530

Electrical Data		
Battery capacity	Ah	150
MAX current	A	653.90
Circuit breaker	A	600

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
- 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

Plinth row for connection from ACP to LTS panel.	√
Power cables connection to Circuit Breaker.	√

Supplements:	
To be ordered with the equipment	:

ENGINE SUPPLEMENTS

PHS - Coolant Pre-Heating System - available for models:	ACP

Accessories

Items available as accessory equipment

LTS - Load Transfer Switch [Accessories for ACP Automatic Control Panel]

Load Transfer Switch panel complete with:
• Two layers motorized change-over switch 4pole made by means of two switch disconnectors mechanically interlocked.
• Emergency stop button
The Load Transfer Switch (LTS) panel operates the power supply changeover between the generator and the Mains in backup applications, guarantying the feeding to the load within a short period of time.
It consists of a standalone cabinet which can be installed separate from the generating set.
The logic control of the power supply changeover is operated by means of the Automatic Control panel mounted on the generating set, so therefore none logic device is required on the LTS panel.