

GBW15P (ALT. M)



Main Features		
Frequency	Hz	50
Voltage	V	400
Power factor	cos φ	0.8
Phase	101	3
	- VIA	

Power Rating		
Emergency Standby Power ESP	kVA	13.70
Emergency Standby Power ESP	kW	10.96
Prime power PRP	kVA	13.00
Prime power PRP	kW	10.40

Ratings definition (ISO-8528)

ESP - Emergency Standby Power: It 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.

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 maintenance intervals and procedures being carried out as 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.

Nodel		403A-15G
50Hz] Exhaust emission level	Ν	lot regulated
Engine cooling system		Water
Vr. of cylinder and disposition		3 in line
Displacement	CM ³	1496
Aspiration		Natural
Speed governor		Mechanical
Prime gross power PRP	kW	13.7
laximum gross power LTP ESP	kW	15.1
Dil capacity	I	6
Coolant capacity	I	6
Fuel		Diesel
Specific fuel consumption 75% PRP	g/kWh	251
Specific fuel consumption PRP	g/kWh	260
Starting system		Electric
Electric circuit	V	12



Motor equipment

Standards

The above values represent engine performance under conditions specified in ISO 8528/1, ISO 3046/1:1986, BS 5514/1

Injection system

Rotary type pump

Lubrication system Steel oil pan and dipstick

Filters

- Fuel filterAir filter
- Oil filter

Cooling system

- Radiator and pipes
- Thermostatically controlled system with belt-driven circulation pump and • pressure fan

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Alternator Specifications		
Alternator		Mecc Alte
Model	ECP28-1S/4C	
Voltage	V	400
Frequency	Hz	50
Power factor	cos φ	0.8
Poles		4
Туре		Brushless
Voltage tolerance	%	1
Efficiency @ 75% load	%	87.5
Class		Н
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 $\pm 1\%$ in static condition with any power factor and with speed variation between 5% and +30% with reference to the rated speed.



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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 WELDER STEEL PROFILE, COMPLETE WITH:

- · Anti-vibration mountings properly sized
- · Visual fuel level indicator
- Integrated support legs.

PLASTIC FUEL TANK, COMPLETE WITH:

- Filler neck
- Air breather (ventilation pipe)
- · External fuel refilling

OIL DRAININ PIPE WITH CAP:

· Oil draining facilities









- · Single piece hinged soundproof canopy equipped with pneumatic arms and handles to lift up the canopy allowing easy access to the genset for maintenance purposes.
- · Simple handling operations with central lifting eye

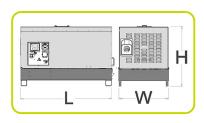
SOUNDPROOF:

awai • Noise attenuation thanks to soundproofing material (polyurethane foam) and efficient residential silencer placed inside the canopy.





Dimensional data		
Length	(L) mm	1640
Width	(W) mm	900
Height	(H) mm	1075
Dry weight	kg	470
Fuel tank capacity		51
Fuel tank material		Plastic



Autonomy		
Fuel consumption @ 75% PRP	l/h	2.72
Fuel consumption @ 100% PRP	l/h	3.79
Running time 75% PRP	h	18.75
Running time 100% PRP	h	13.46

Installation data		
Total air flow	m³/min	49.00
Exhaust gas flow	m³/min	2.2
Exhaust gas temperature	°C	580

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ACP

MCP

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Electrical Data

Battery capacity

Circuit breaker

Control panel availability

AUTOMATIC CONTROL PANEL

MANUAL CONTROL PANEL

Max current

MCP - Manual control panel

Manual control panel, mounted on the genset and complete of: instrumentation, control, protection and sockets

INSTRUMENTATION (ANALOGUE)

- Voltmeter (1 phase)Ammeter (1 phase)
- Hours-counter

COMMANDS AND OTHERS

- · Start/stop selector switch with key (Glow plugs preheating function also included).
- Emergency stop button

PROTECTION WITH ALARM

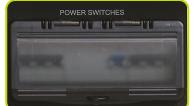
- Battery charger failure
- Low oil pressure
- High engine temperature
 Magnetothermic protection III poles
- Thermal protections
- · Differential protection

PROTECTIONS WITH SHUTDOWN

- · Battery charger failure
- Low oil pressure
- · High engine temperature

OTHERS

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OUT PUT PANEL MCP

	$\sim ON$
0	Lo.
10	
3	
	Standard
n	1
n	1
n	2
n	1
	n n







ACP - Automatic control panel

Automatic control panel mounted on the genset, complete with digital control unit for monitoring, control and protection of the generating set.

INSTRUMENTATION DIGITAL

- · Mains voltage.
- Generating set voltage (3 phases).
- · Generating set frequency.
- Generator set current.
- · Battery voltage
- · Hours-counter.

COMMANDS AND OTHERS

- · Operation modes: OFF Manual Starting Automatic Starting.
- Push-buttons: start/stop, fault reset, up/down/page/enter selection.
- · Emergency stop button.
- Remote starting availability.
- · Automatic battery charger.
- USB port.

PROTECTIONS WITH ALARM

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

PROTECTIONS WITH SHUTDOWN

- ant. .uer/ove · Engine protections: low oil pressure, high engine temperature
- · Genset protection: under/over voltage, overload, under/over battery voltage
- · Circuit breaker protection: III poles
- Differential protection

OTHERS

Cover protection Power switch









ELECTRIC DISTRIBUTION PANEL ACP

Direct commutation command (ACP) terminal block		
Connecting the power cables to the switch		
3P+N+T CEE 400V 32A	n	1 [•]
[●] = Supplement available		



Accessories
Items available as accessory equipment
Site trailer
Road Trailer

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

LTS - Switchboard [Accessory for automatic switchboard ACP]

The switching panel (L TS) switches between the group and the network in emergency applications, guaranteeing the supply of the load in a short time. It consists of a separate panel from the group. The control logic is managed by the automatic panel (ACP) mounted on the generator set, therefore a management card on the L TS panel is not required.

ATyS_dM type:

- Type of box: in steel
- · Method of installation: wall mounted
- · Door: with hinges and key lock
- Protection: IP54
- · Gland plates: removable on top and bottom
- Connections: bottom/bottom
- Motor unit
- Switch position indicator
- Automatic / manual selector
- Housing for manual handle
- Padlock lock
- Two disconnectors mounted side by side with motor
- Poles 4
- Self-feeding double coil
- Voltage (coils): 230 / 240VAC (Tolerance +/- 20% 176 / 288VAC)
- Frequency 50 and 60 Hz
- Complies with IEC 60947-3, EN 61439-6-1 and GB 14048-11 standards

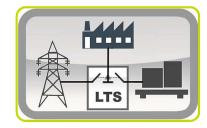
SUPPLEMENTS AVAILABLE ON REQUEST (only for LTS Version ATyS_dM):

• ESB - Emergency Stop Button (installed on the front panel)

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• APP - Additional IPXXB protection (internal plexiglass)







The information is aligned with the Data file at the time of download. Printed on 10/01/2023 (ID 10722)

