GDW1020B/FNE



Power Rating		
Emergency Standby Power ESP	kVA	1016.0
Emergency Standby Power ESP	kW	812.8
Prime power PRP	kVA	930.0
Prime power PRP	kW	744.0
Voltage	V	400/230
Frequency	Hz	50
Power factor	cos ϕ	0.8
Phases		3
Fuel		Diesel





Ratings definition (ISO-8528-1)
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 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.
G2 class load acceptance in accordance with ISO 8528-5: Higher performance classes check upon request.
Gensets are compliant with EC mark which includes the following directives and standards and subsequent modification and intregation:
• 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) – If applicable
• 97/68/EC Emissions of gaseous and particulate pollutants. (amended by 2016/1628 EC) – If applicable
• ISO 8528 as applicable
• 2011/65 ROHS
• EN 12100, EN 13857, EN 60204 as referred into the ISO8528-13
Company with quality certification ISO 9001

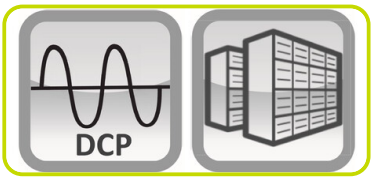
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Data Centre Power (available with DCP optional)



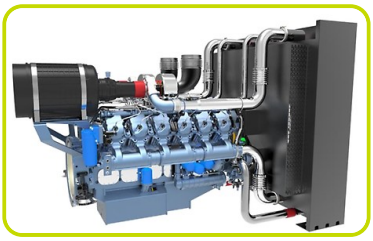
Power Rating DCP

Data Center Power DCP	kVA	930
Data Center Power DCP	kW	744
Voltage	V	400/230
Frequency	Hz	50
Power factor	cos ϕ	0.8
Phase		3
Fuel		Diesel



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Engine specifications		
Engine brand		Baudouin
Model		12M26 G1000/5
Operation Speed Nominal	rpm	1500
Engine cooling system		Water
Exhaust emission level		Non Emission Certified
Nr. of cylinder and disposition		12 V angle
Displacement	cm^3	31800
Aspiration	Type	Turbocharged aftercooled
Speed governor		Electronic
Gross Engine Power ESP	kWm	902
Gross Engine Power PRP	kWm	820
Gross Data Center Power DCP	kWm	820
Total Oil capacity	l	109
Lube oil consumption PRP (max)	% fuel consumption	0.3
Total Coolant capacity	l	204
Fuel		Diesel
Specific Fuel consumption 100% ESP	g/kWh	203.9
Specific Fuel consumption 75% PRP	g/kWh	200.1
Starting system		Electric
Electric circuit	V	24



Radiator

Cooling fan	Type	Mechanical
Cooling fan power	kW	26.5
Cooling fan airflow rate	m^3/min	840

Alternator specifications		
Alternator brand		Mecc Alte
Model		ECO43-2SN/4
Winding		Standard
Winding Connections	Type	Parallel Star
Frequency	Hz	50
Voltage	V	400
Phases		3
Power factor	cos ϕ	0.8
Stand-by rating 27°C	kVA	1016
Continuous Nominal Rating 40°C	kVA	930
Efficiency @ 100% of load	%	95.4
Type		Brushless
Poles		4
Class		H
IP protection		23



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Installation data		
Total air flow	m³/min	992
Exhaust gas flow PRP	m³/min	154.5
Exhaust gas temperature	°C	550
Fuel consumption 75% PRP	l/h	145.21
Fuel consumption 100% PRP	l/h	191.70



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Fuel Tank - Options Available:		
To be ordered with equipment (when necessary)		
AUTONOMY		
PFT Running time 75% PRP	h	4.48
MFT-XS Running time 75% PRP	h	3.44
MFT-S Running time 75% PRP	h	6.89
MFT-M Running time 75% PRP	h	13.77
MFT-L Running time 75% PRP	h	27.55



PFT	Plastic Fuel Tank	Type	8
	8PFT Fuel tank capacity	l	650
	8PFT Fuel tank location		Internal



MFT	Metal Fuel Tank	Type	XS
	MFT-XS Fuel tank capacity	l	500
	MFT-XS Fuel tank location		Internal

MFT	Metal Fuel Tank	Type	S
	MFT-S Fuel tank capacity	l	1000
	MFT-S Fuel tank location		Internal

MFT	Metal Fuel Tank	Type	M
	MFT-M Fuel tank capacity	l	2000
	MFT-M Fuel tank location		With sub-base
	MFT-M EXTRA Height (for open/canopy versions)	mm	218
	MFT-M EXTRA Height (for container versions)	mm	305
	MFT-M EXTRA Weight	kg	703



MFT	Metal Fuel Tank	Type	L
	MFT-L Fuel tank capacity	l	4000
	MFT-L Fuel tank location		With sub-base
	MFT-L EXTRA Height (open/canopy versions)	mm	718
	MFT-L EXTRA Weight	kg	1082

Electrical Data		
Battery Voltage	V	24
Battery	n	2
Battery capacity	Ah	220
Genset Voltage	V	400/230
Frequency	Hz	50
Phases		3
Power Factor	cos ϕ	0.8
Max current	A	1467
Nominal current	A	1342
Circuit breaker	A	1600



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Control panel - Options Available:

AUTOMATIC CONTROL PANEL	ACP
MODULAR PARALLEL PANEL	MPP



ACP - AUTOMATIC CONTROL PANEL

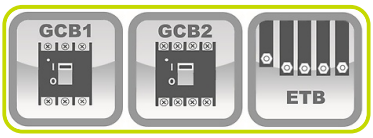
- Auto Mains Failure (AMF) function
- Gen-set controller for single genset operating in standby or prime power modes
- Full gen-set monitoring and protection
- Detailed event and performance log with time and date
- Wide range of remote control modules available as option
- Wide range of I/O expansion modules available as option



Power supply by circuit breaker and/or terminal bus bar

ACP - Power Panel - Breakers Available:

GCB1 - Genset Circuit Breaker 3-pole	A	1600
GCB2 - Genset Circuit Breaker 4-pole	A	1600
ETB - External Terminal Board (with GCB)		Standard



MPP - MODULAR PARALLEL PANEL

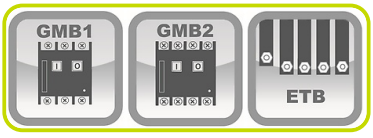
- Modular parallel panel allows the genset to work in parallel (up to 32 gen-sets)
- Easy switching between parallel to mains or multiple genset applications
- Full gen-set monitoring and protection
- Detailed event and performance log with time and date
- Wide range of communication and connection capabilities available



Power supply by circuit breaker and/or terminal bus bar

MPP - Power Panel - Breakers Available:

GMB1 - Genset Circuit Breaker 3-pole motorized	A	1600
GMB2 - Genset Circuit Breaker 4-pole motorized	A	1600
ETB - External Terminal Board (with GMB)		Standard



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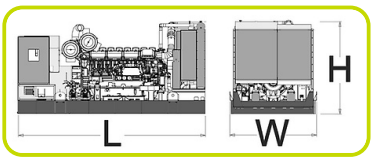
OPEN VERSION

- Baseframe made of welded steel profile
- Anti-vibration mountings properly sized
- Lifting points on the baseframe for handling by crane
- Moving and rotating parts protection against accidental contact
- Grounding point to connect all metal parts to ground



Dimensional data Open Version

Length	(L) mm	3962
Width	(W) mm	2000
Height	(H) mm	2160



Weight	kg	8186

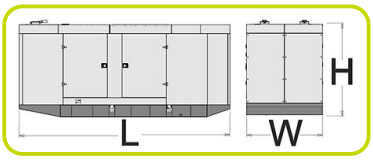
CANOPY VERSION

- Weatherproof Enclosure made of galvanized sheet metal allows to protect genset from corrosion and aggressive condition
- Soundproofed enclosure tanks to high quality soundproof material and residential silencer, allows to have low noise emission level
- Big large lateral doors allows an easy service and maintenance operation
- Doors equipped with key lockable handles
- Baseframe made of welded steel profile
- Anti-vibration mountings properly sized
- Moving and rotating parts protection against accidental contact
- Grounding point to connect all metal parts to ground
- Lifting points for handling by crane



Dimensional data Canopy Version

Length	(L) mm	5750
Width	(W) mm	2035
Height	(H) mm	2678



Weight	kg	9178

Noise Level Canopy Version

Guaranteed noise level (LWA)	dB(A)	105
Noise pressure level @ 1 m	dB(A)	84
Noise pressure level @ 7 m	dB(A)	75
Noise pressure level @ 10 m	dB(A)	72



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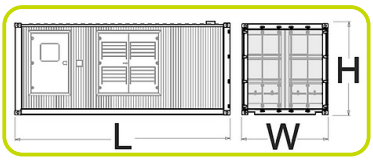
CONTAINER VERSION

- Soundproofed Container adaptable to meet all your requirements and needs, equipped with residential silencer positioned inside or on the roof.
- Sturdy structure similar to shipping containers: upper and lower corner castings, monolithic structure, walls and roof made of corrugated steel sheet.
- Reinforced floor structure covered with teardrop patterned steel sheet
- High resistance to the atmospheric agents.
- Air inlet and exhaust openings air outlet for genset cooling.
- Large lateral doors allows an easy service and maintenance operation.
- Doors fixed by sturdy steel hinges equipped with lever bolt locks and panic bars.



Dimensional data Container Version

Length	(L) mm	6058
Width	(W) mm	2444
Height	(H) mm	2591

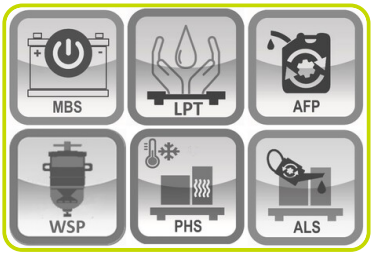


Weight	kg	12346

Noise Level Container Version

Noise pressure level @ 7 m	dB(A)	77+/-3

Supplements available:	
Manual Battery Switch	MBS
Double Automatic Fuel Pump	DFP
Coolant Pre-Heating System	PHS
Heavy-Duty Air Filter	HDF
Water Separator Filter	WSP
Alternator anti-condensation heater	ACH
Convention for safe container	CSC
Double Electric Start	DES
Upsized Alternator	UAL
Other Configurations and-or special versions available on requests	



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