

# GDW620S/FNE



Power Rating		
Emergency Standby Power ESP	kVA	619.9
Emergency Standby Power ESP	kW	495.9
Prime power PRP	kVA	561.7
Prime power PRP	kW	449.4
Voltage	V	400/230
Frequency	Hz	50
Power factor	cos ф	0.8
Phases		3
Fuel		Diesel
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#### 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 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 8528-5:2013 Higher performance classes check upon request.

#### 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) If applicable
- 97/68/EC Emissions of gaseous and particulate pollutants. (amended by 2002/88/EC & 2004/26/EC) If applicable
- EN 12100, EN 13857, EN 60204

Company with quality certification ISO 9001



Engine specifications		
Engine brand		Scania
Model		DC16 093A 02-52
Operation Speed Nominal	rpm	1500
Engine cooling system		Water
Exhaust emission level		Non Emission Certified
Nr. of cylinder and disposition		8 V angle
Displacement	cm <sup>3</sup>	16400
Aspiration	Туре	Turbocharged
Speed governor		Electronic
Gross Engine Power ESP	kWm	535
Gross Engine Power PRP	kWm	486
Fan Power	kWm	13
Fan Air flow	m³/min	850
Total Oil capacity	1	48
Lube oil consumption PRP (max)	% fuel consumption	0.2
Total Coolant capacity	1	92
Fuel		Diesel
Specific Fuel consumption ESP	g/kWh	194
Specific Fuel consumption 75% PRP	g/kWh	190
Starting system		Electric
Electric circuit	V	24



Alternator specifications		
Alternator brand		Mecc alte
Model		ECO40 2L4 C
Winding		Standard
Winding Connections	Туре	Parallel Star
Frequency	Hz	50
Voltage	V	400
Phases		3
Power factor	cos ф	0.8
Stand-by rating 27°C	kVA	675
Continuous Nominal Rating 40°C	kVA	625
Efficiency @ 100% of load	%	95.0
Туре		Brushless
Poles		4
Voltage tolerance	%	1
Class		Н
IP protection		23



Installation data		
Cooling air	m³/min	936
Exhaust gas flow PRP	m³/min	85.0
Exhaust gas temperature	°C	501
Fuel consumption 75% PRP	l/h	83.11
Fuel consumption 100% PRP	l/h	109.94



Fuel Tank - Options Available:		
To be ordered with equipment (when necessary)		
AUTONOMY		
8PFT Running time 75% PRP	h	7.82
MFT-XS Running time 75% PRP	h	6.02
MFT-S Running time 75% PRP	h	7.82
MFT-M Running time 75% PRP	h	27.67
MFT-L Running time 75% PRP	h	54.15



PFT Plastic Fuel Tank	Туре	8
8PFT Fuel tank capacity	l	650
8PFT Fuel tank location		Internal
MFT Metal Fuel Tank	Туре	XS
MFT-XS Fuel tank capacity	I	500
MFT-XS Fuel tank location		Internal
MFT Metal Fuel Tank	Туре	S
MFT-S Fuel tank capacity		650
MFT-S Fuel tank location		Internal
MFT Metal Fuel Tank	Туре	M
MFT-M Fuel tank capacity		2300
MFT-M Fuel tank location		With sub-base
MFT-M EXTRA Length (only for open versions)	mm	774
MFT-M EXTRA Height	mm	415
MFT-M EXTRA Weight	Kg	900
MFT Metal Fuel Tank	Туре	L
MFT-L Fuel tank capacity	I	4500
MFT-L Fuel tank location		With sub-base
MFT-L EXTRA Length (only for open versions)	mm	774
MFT-L EXTRA Height	mm	780
MFT-L EXTRA Weight	Kg	1320





Electrical Data		
Battery Voltage	V	24
Genset Voltage	V	400/230
Frequency	Hz	50
Phases		3
Power Factor	cos ф	0.8
Max current	Α	895
Nominal current	А	811
Circuit breaker	Α	1000



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 terminal bus bar



## **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 dateWide range of communication and connection capabilities available

Power supply by terminal bus bar



#### **CONTROL PANEL - Optional Equipment:**

**Differential Protection** ADI



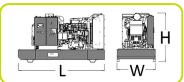
#### **OPEN VERSION**

- · Baseframe made of welded steel profile
- Anti-vibration mountings properly sized
- · Screwed support legs
- Hole 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	3726
Width	(W) mm	1590
Height	(H) mm	2163



Weight	Kg	3678
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# OPTIONS AVAILABLE (ONLY FOR OPEN VERSION)

Industrial Exhaust System	IES
Residential Exhaust System	RES
Critical Exhaust System	CES



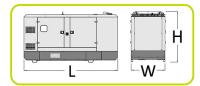
# **CANOPY VERSION**

- 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
- · Screwed support legs
- Hole for handling by crane
- · Moving and rotating parts protection against accidental contact
- · Grounding point to connect all metal parts to ground

# Dimensional data Canopy Version

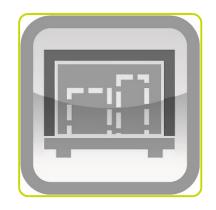
Length	(L) mm	4500
Width	(W) mm	1590
Height	(H) mm	2347





#### **CANOPY EXTRA SILENT VERSION**

- Extra silent Enclosure with low noise emission, suitable for installation near city centre and in any place where severe noise emission restriction are present
- Extra Silent Enclosure guarantee very low noise emission thanks to an additional soundproofing modules, high quality soundproof material and residential silencer installed inside the enclosure
- Weatherproof Enclosure made of galvanized sheet metal allows to protect genset from corrosion and aggressive condition
- 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
- Screwed support legs
- · Hole in the baseframe for handling by crane
- Moving and rotating parts protection against accidental contact
- · Grounding point to connect all metal parts to ground



## **OPTIONS AVAILABLE (ONLY FOR CANOPY VERSIONS)**

Roof lifting Point	RLP
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# OPTIONAL FEATURES To be ordered with equipment (w

To be ordered with equipment (when necessary)	:
Pre-Heating System	PHS
Air Shut-Off Valve	ASV
Heavy-Duty Air Filter	HDF
Water Separator Filter	WSP
Exhaust Spark Arrestor	ESA
Hot Parts Protection	HPP
Alternator Winding Total Protection	WTP
Alternator anti-condensation heater	ACH
Galvanized skid base with fork lift point	GSB



