

# **GDW110I/FS2**



Power Rating		
Emergency Standby Power ESP	kVA	110.0
Emergency Standby Power ESP	kW	88.0
Prime power PRP	kVA	100.0
Prime power PRP	kW	80.0
Voltage	V	400/230
Frequency	Hz	50
Power factor	cos φ	0.8
Phases		3
Fuel		Diesel



## 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		FPT
Model		NEF45TM2A
Operation Speed Nominal	rpm	1500
Engine cooling system		Water
Exhaust emission level		Stage II
Nr. of cylinder and disposition		4 in line
Displacement	cm <sup>3</sup>	4500
Aspiration	Туре	Turbocharged aftercooled
Speed governor		Mechanical
Gross Engine Power ESP	kWm	98
Gross Engine Power PRP	kWm	89.3
Fan Power	kWm	1.8
Fan Air flow	m³/min	132
Total Oil capacity	1	12.8
Lube oil consumption PRP (max)	% fuel consumption	0.1
Total Coolant capacity	1	18.5
Fuel		Diesel
Specific Fuel consumption 75% PRP	g/kWh	203.5
Starting system		Electric
Electric circuit	V	12



Alternator specifications		
Alternator brand		Mecc Alte
Model		ECP34-2S 4C
Winding Connections	Туре	Series Star
Frequency	Hz	50
Voltage	V	400
Phases		3
Power factor	cos ф	0.8
Stand-by rating 27°C	kVA	110
Continuous Nominal Rating 40°C	kVA	100
Efficiency @ 100% of load	%	92
Туре		Brushless
Poles		4
Voltage tolerance	%	1
Class		Н
IP protection		23



Installation data		
Fuel consumption 75% PRP	l/h	16.13
Fuel consumption 100% PRP	l/h	21.95



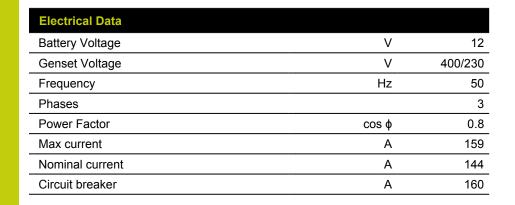
Fuel Tank - Options Available:		
To be ordered with equipment (when necessary)		
AUTONOMY		
8PFT Running time 75% PRP	h	21.70
MFT-S Running time 75% PRP	h	21.70
MFT-M Running time 75% PRP	h	31.00
MFT-L Running time 75% PRP	h	62.00



PFT	Plastic Fuel Tank	Type	8
	8PFT Fuel tank capacity	I	350
	8PFT Fuel tank location		Internal
MFT	Metal Fuel Tank	Туре	S
	MFT-S Fuel tank capacity	1	350
	MFT-S Fuel tank location		Internal
MFT	Metal Fuel Tank	Туре	М
	MFT-M Fuel tank capacity	1	500
	MFT-M Fuel tank location		With sub-base
	MFT-M EXTRA Length (only for open versions)	mm	417
	MFT-M EXTRA Height	mm	238
	MFT-M EXTRA Weight	Kg	293
MFT	Metal Fuel Tank	Туре	L
	MFT-L Fuel tank capacity	1	1000
	MFT-L Fuel tank location		With sub-base
	MFT-L EXTRA Length (only for open versions)	mm	417
	MFT-L EXTRA Height	mm	464
	MFT-L EXTRA Weight	Kg	415









Control panel - Options Available:	
MANUAL REMOTE START PANEL	MRS
AUTOMATIC CONTROL PANEL	ACP
MODULAR PARALLEL PANEL	MPP



## **MRS - MANUAL REMOTE START PANEL**

- · Manual and remote start controller
- · Automatic mains failure start function
- 3 phase mains measurements
- 3 phase generator protections
- Running hours
- 50 events, warnings or shutdown alarms with running hours stamp

Power supply by circuit breaker and/or terminal bus bar



## **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



## **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



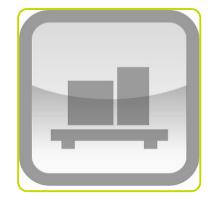
#### **CONTROL PANEL - Optional Equipment:**

External terminal board	ETB
Differential Protection	ADI



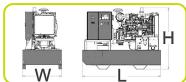
## **OPEN VERSION**

- · 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	2340
Width	(W) mm	1100
Height	(H) mm	1632



Weight	Kg	1049
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## OPTIONS AVAILABLE (ONLY FOR OPEN VERSION)

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

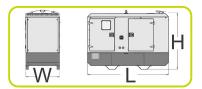


## **CANOPY VERSION**

- 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**

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Length	(L) mm	2757
Width	(W) mm	1120
Height	(H) mm	1852



Weight	Kg	1559
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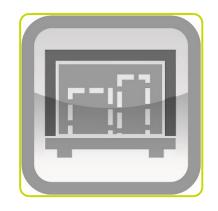
#### **Noise Level Canopy Version**

Guaranteed noise level (LWA)	dB(A)	96
Noise pressure level @ 1 m	dB(A)	78
Noise pressure level @ 7 m	dB(A)	67



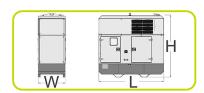
## **CANOPY EXTRA SILENT VERSION**

- 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



## **Dimensional data Canopy (Extra Silent Enclosure)**

Length	(L) mm	2757
Width	(W) mm	1120
Height	(H) mm	2438



Weight	Kg	1729
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## **Noise Level Canopy (Extra Silent Enclosure)**

Guaranteed noise level (LWA)	dB(A)	92
Noise pressure level @ 1 m	dB(A)	74
Noise pressure level @ 7 m	dB(A)	63

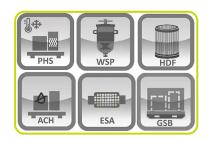


## **OPTIONS AVAILABLE (ONLY FOR CANOPY VERSIONS)**

Roof lifting Point	RLP



OPTIONAL FEATURES	
To be ordered with equipment (when necessary)	:
Pre-Heating System	PHS
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



The information is aligned with the Data file at the time of download. Printed on 14/02/2024 (ID 17918)



