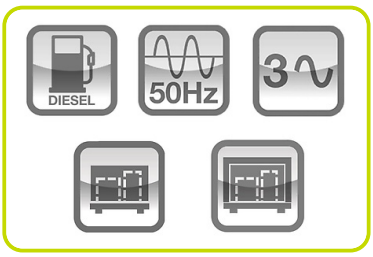
GPW100I/FS5

Power Rating		
Emergency Standby Power ESP	kVA	104.2
Emergency Standby Power ESP	kW	83.4
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 2016/1628 EC) – If applicable
• EN 12100, EN 13857, EN 60204
Company with quality certification ISO 9001

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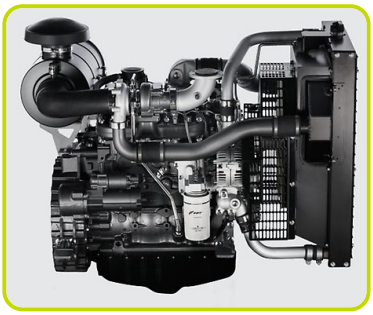
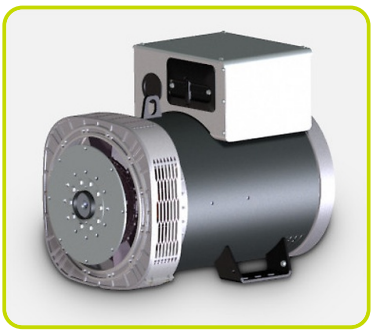
Engine specifications		
Engine brand		FPT
Model		F36ETVP02.A94
Operation Speed Nominal	rpm	1500
Engine cooling system		Water
Exhaust emission level		Stage V
Nr. of cylinder and disposition		4 in line
Displacement	cm³	3600
Aspiration	Type	Turbocharged aftercooled
Speed governor		Electronic
Gross Engine Power ESP	kWm	94
Gross Engine Power PRP	kWm	94
Fan Power	kWm	3.36
Fan Air flow	m³/min	108
Total Oil capacity	l	9.5
Lube oil consumption PRP (max)	% fuel consumption	0.25
Total Coolant capacity	l	5.5
Fuel		Diesel
DEF consumption (as % of Fuel consumption)	%	4.8
Specific Fuel consumption 100% ESP	g/kWh	209
Specific Fuel consumption 75% PRP	g/kWh	205
Starting system		Electric
Electric circuit	V	12



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



Installation data		
Total air flow	m³/min	144
Exhaust gas flow PRP	m³/min	6.7
Exhaust gas temperature	°C	740
Fuel consumption 75% PRP	l/h	16.63
Fuel consumption 100% PRP	l/h	22.58

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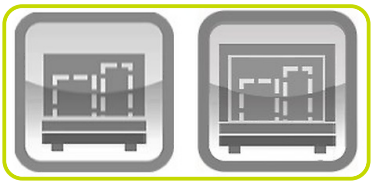
Fuel Tank - Options Available:		
To be ordered with equipment (when necessary)		
AUTONOMY		
8PFT Running time 75% PRP	h	21.05
MFT-S Running time 75% PRP	h	21.05
MFT-M Running time 75% PRP	h	30.07
PFT Plastic Fuel Tank	Type	8
8PFT Fuel tank capacity	l	350
8PFT Fuel tank location		Internal
.		
MFT Metal Fuel Tank	Type	S
MFT-S Fuel tank capacity	l	350
MFT-S Fuel tank location		Internal
.		
MFT Metal Fuel Tank	Type	M
MFT-M Fuel tank capacity	l	500
MFT-M Fuel tank location		With sub-base
MFT-M EXTRA Height (for open/canopy versions)	mm	238
MFT-M EXTRA Weight	kg	293



DEF tank		
DEF tank Capacity	l	43
DEF consumption @ 75% PRP	l/h	0.798
DEF Autonomy @ 75% PRP	h	53.88
DEF consumption @ 100% PRP	l/h	1.084
DEF Autonomy @ 100% PRP	h	39.67

Electrical Data		
Battery Voltage	V	12
Battery	n	1
Battery capacity	Ah	101
Genset Voltage	V	400/230
Frequency	Hz	50
Phases		3
Power Factor	cos ϕ	0.8
Max current	A	150
Nominal current	A	144
Circuit breaker	A	160

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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

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

SOCKETS PANEL - Optional Equipment:

- Sockets panel positioned on the frontal side, separated from control panel cabinets
- High flexibility of sockets kit scope of supply
- Easy and fast power cables connection
- Sockets kit to be define during the order

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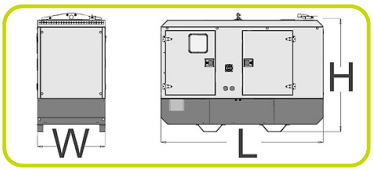
CANOPY VERSION

- 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
- Robust Lifting bridge, with single lifting point positioned on the roof

Dimensional data Canopy Version

Length	(L) mm	2757
Width	(W) mm	1120
Height	(H) mm	1846



Weight	kg	1624

Noise Level Canopy Version

Guaranteed noise level (LWA)	dB(A)	97
Noise pressure level @ 1 m	dB(A)	79
Noise pressure level @ 7 m	dB(A)	68

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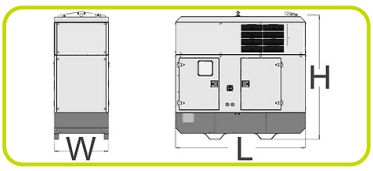
CANOPY EXTRA SILENT VERSION

- 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
- Robust Lifting bridge, with single lifting point positioned on the roof

Dimensional data Canopy (Extra Silent Enclosure)

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



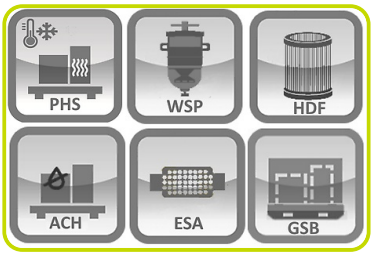
Weight	kg	1809

Noise Level Canopy (Extra Silent Enclosure)

Guaranteed noise level (LWA)	dB(A)	94
Noise pressure level @ 1 m	dB(A)	76
Noise pressure level @ 7 m	dB(A)	65

OPTIONAL FEATURES

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
Alternator Winding Total Protection	WTP
Alternator anti-condensation heater	ACH
Galvanized skid base with fork lift point	GSB



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