

GDW-420V/FS2



Power Rating

Emergency Standby Power ESP	kVA	419.2
Emergency Standby Power ESP	kW	335.4
Prime power PRP	kVA	382.7
Prime power PRP	kW	306.2
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



Engine specifications

Engine brand	Volvo	
Model	TAD1343GE	
Operation Speed Nominal	rpm	1500
Engine cooling system	Water	
Exhaust emission level	Stage II	
Nr. of cylinder and disposition	6 in line	
Displacement	cm ³	12780
Aspiration	Type	Turbocharged
Speed governor	Electronic	
Gross Engine Power ESP	kWm	366
Gross Engine Power PRP	kWm	335
Fan Power	kWm	10
Fan Air flow	m ³ /min	408
Total Oil capacity	l	36
Total Coolant capacity	l	44
Fuel	Diesel	
Specific Fuel consumption 100% ESP	g/kWh	195
Specific Fuel consumption 75% PRP	g/kWh	193
Starting system	Electric	
Electric circuit	V	24

Alternator specifications

Alternator brand	Mecc Alte	
Model	ECO40 1S4 C	
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	440
Continuous Nominal Rating 40°C	kVA	400
Efficiency @ 100% of load	%	94.2
Type	Brushless	
Poles	4	
Voltage tolerance	%	0.5
Class	H	
IP protection	23	

Installation data

Total air flow	m ³ /min	488
Exhaust gas flow PRP	m ³ /min	56
Exhaust gas temperature	°C	420
Fuel consumption 75% PRP	l/h	58.19
Fuel consumption 100% PRP	l/h	76.58



Fuel Tank - Options Available:

To be ordered with equipment (when necessary)

AUTONOMY

8PFT Running time 75% PRP	h	11.17
MFT-S Running time 75% PRP	h	11.17
MFT-M Running time 75% PRP	h	34.37
MFT-L Running time 75% PRP	h	68.74

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

MFT Metal Fuel Tank	Type	S
MFT-S Fuel tank capacity	l	650
MFT-S Fuel tank location		Internal

MFT Metal Fuel Tank	Type	XM
MFT-XM Fuel tank capacity	l	1000
MFT-XM Fuel tank location		With sub-base
MFT-XM EXTRA Length (only for open versions)	mm	689
MFT-XM EXTRA Height	mm	448
MFT-XM EXTRA Weight	kg	615

MFT Metal Fuel Tank	Type	M
MFT-M Fuel tank capacity	l	2000
MFT-M Fuel tank location		With sub-base
MFT-M EXTRA Length (only for open versions)	mm	689
MFT-M EXTRA Height	mm	448
MFT-M EXTRA Weight	kg	813

MFT Metal Fuel Tank	Type	L
MFT-L Fuel tank capacity	l	4000
MFT-L Fuel tank location		With sub-base
MFT-L EXTRA Length (only for open versions)	mm	689
MFT-L EXTRA Height	mm	860
MFT-L EXTRA Weight	kg	1172

Electrical Data

Battery Voltage	V	24
Genset Voltage	V	400/230
Frequency	Hz	50
Phases		3
Power Factor	cos ϕ	0.8
Max current	A	605
Nominal current	A	552
Circuit breaker	A	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 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



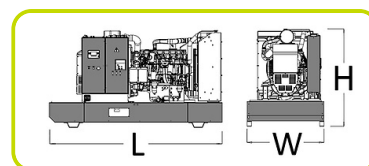
OPEN VERSION

- 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	3311
Width	(W) mm	1460
Height	(H) mm	1994



Weight	kg	3431
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OPTIONS AVAILABLE (ONLY FOR OPEN VERSION)

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



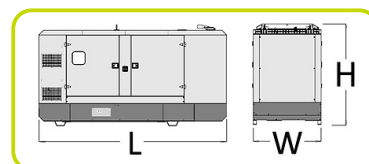
CANOPY VERSION

- 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	4000
Width	(W) mm	1460
Height	(H) mm	2147



Weight	kg	4167
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Noise Level Canopy Version

Guaranteed noise level (LWA)	dB(A)	97
Noise pressure level @ 1 m	dB(A)	78
Noise pressure level @ 7 m	dB(A)	68



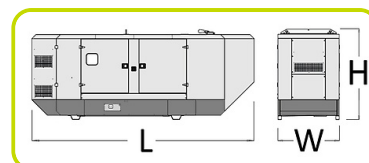
CANOPY EXTRA SILENT VERSION

- 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	5286
Width	(W) mm	1460
Height	(H) mm	2147



Weight	kg	4498
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Noise Level Canopy (Extra Silent Enclosure)

Guaranteed noise level (LWA)	dB(A)	94
Noise pressure level @ 1 m	dB(A)	74
Noise pressure level @ 7 m	dB(A)	64



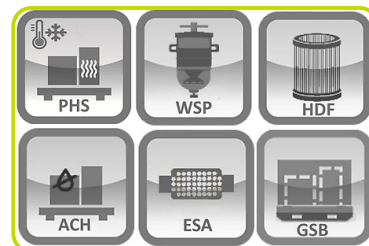
OPTIONS AVAILABLE (ONLY FOR CANOPY VERSIONS)

Roof lifting Point	RLP
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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.
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