

GSW145V



Main Features

Frequency	Hz	50
Voltage	V	400
Power factor	cos ϕ	0.8
Phase		3

Power Rating

Standby power LTP	kVA	145.16
Standby power LTP	kW	116.13
Prime power PRP	kVA	130.06
Prime power PRP	kW	104.05

Ratings definition (According to standard ISO8528 1:2005)

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.

LTP - Limited-Time running Power:

It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 h of operation per year (whose no more than 300 for continuative use) with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. No overload capability is available.

Engine specifications

Engine manufacturer	Volvo	
Model	TAD532GE	
[50Hz] Exhaust emission level	Stage II	
Engine cooling system	Water	
Nr. of cylinder and disposition	4 in line	
Displacement	cm ³	4760
Aspiration	Turbocharged intercooled	
Speed governor	Electronic	
Prime gross power PRP	kW	116
Maximum gross power LTP	kW	129
Oil capacity	l	13
Coolant capacity	l	19.2
Fuel	Diesel	
Specific fuel consumption @ 75% PRP	g/kWh	210
Specific fuel consumption @ PRP	g/kWh	214
Starting system	Electric	
Starting engine capability	kW	3.1
Electric circuit	V	12



ENGINE EQUIPMENT

Standards

The engine performance corresponds to ISO 3046, BS 5514 and DIN 6271. Power output guaranteed within 0 to +2% at rated ambient conditions at delivery. Ratings are based on ISO 8528. Engine speed governing in accordance with ISO 3046/IV, class A1 and ISO 8528-5 class G3

Engine and block

- Optimized cast iron cylinder block with optimum distribution of forces
- Drop forged steel connecting rods
- Keystone top compression rings for long service life
- Replaceable valve guides and valve seats

Fuel system

- Washable fuel prefilter with water separator
- Fine fuel filter of disposable type
- Rotary low-pressure fuel pump

Lubrication system

- Rotary displacement oil pump driven by the crankshaft
- Deep centre oil sump – Oil filler on top – Oil dipstick, short in front
- Integrated full flow oil cooler, side-mounted– Integrated full flow oil cooler, side-mounted

Cooling system

- Belt driven, maintenance-free coolant pump with high degree of efficiency
- Efficient cooling with accurate coolant control through a water distribution duct in the cylinder block
- Reliable thermostat with minimum pressure drop

Alternator Specifications

Alternator		STAMFORD
Model		UCI274E
Voltage	V	400
Frequency	Hz	50
Power factor	cos ϕ	0.8
Poles		4
Type		Brushless
Standard AVR		SX460
Voltage tolerance	%	1
Efficiency @ 75% load	%	92.5
Class		H
IP protection		23



Genset equipment

BASE FRAME MADE OF WELDED STEEL PROFILE, COMPLETE WITH:

- Steel base frame with support legs
- Anti-vibration mountings properly sized
- Grounding point to connect all metal parts of the generating set



FUEL TANK WITH THE FOLLOWING COMPONENT:

- Filler neck
- Air breather (ventilation pipe)
- Minimum fuel level sensor



PROTECTIONS:

- Moving and rotating parts protection against accidental contacts.



ENGINE COMPLETE WITH:

- Battery
- Liquids (no fuel)

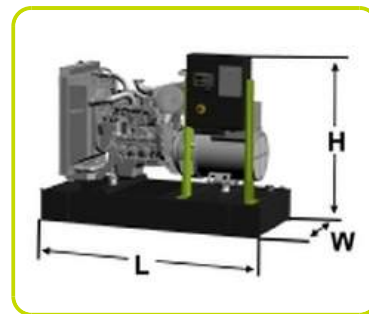
EXHAUST (Standard):

- Industrial silencer (loose)



Dimensional data

Length	(L) mm	2200
Width	(W) mm	1000
Height	(H) mm	1743
Dry weight	Kg	1495
Fuel tank capacity	l	240



Autonomy

Fuel consumption @ 75% PRP	l/h	21.89
Fuel consumption @ 100% PRP	l/h	29.55
Running time @ 75% PRP	h	10.96
Running time @ 100% PRP	h	8.12

Installation data

Exhaust gas flow @ PRP	m ³ /min	21.2
Exhaust gas temperature @ LTP	°C	532

Data Current

Battery capacity	Ah	140
MAX current	A	209.53
Circuit breaker	A	250

Control panel availability

MANUAL CONTROL PANEL	MCP
AUTOMATIC CONTROL PANEL	ACP
MODULAR PARALLEL PANEL	MPP