



GPP1650

INDUSTRIAL RANGE

 Perkins

GENERATING SETS

 WATER COOLED  THREE PHASES  50 HZ  DIESEL

Service		Standby	Prime
Power	kVA	1650	1525
Power	kW	1320	1220
Rated Speed	r.p.m	1500	
Standart Voltage	V	400/230	
Rated At Power Factor	Cos Phi	0,8	

Company with quality certification ISO 9001
gensets are compliant with CE mark which includes the following directives:

- 2006/42/EC Machinery safety.
- 2014/30/EU Electromagnetic compatibility.
- 2014/35/EU Electrical equipment designed for use within certain voltage limits
- 2000/14/EC Sound Power level. Noise emissions outdoor equipment. (amended by 2005/88/EC)
- EN 12100:2010, TS EN 60201-1, EN 55011, EN 61000-6-4, EN 61000-4-11, EN 61000-4-8, EN 610000-4-5, EN 610000-4-2, EN 610000-4-2, EN 12601, TS ISO 8528-1-12

CE

SPECIFICATIONS



Engine



Alternator

Engine Specifications

Standby Power/Prime Power	<i>kWm</i>	1395 / 1267
Manufacturer		Perkins
Model		412-46TAG2A
Engine Type		4 Stroke - Diesel
Injection Type		Direct Injection
Aspiration Type		Turbo Charge ACC
Number of cylinder		16
Bore and Stroke	<i>mm</i>	160x190
Displacement	<i>L</i>	61,123
Cooling System		Water Cooling
Heating Power	<i>Watt</i>	2x2000W
Fuel Consumption 50% PRP	<i>l/h</i>	198
Fuel Consumption 75% PRP	<i>l/h</i>	300
Fuel Consumption 100 % PRP	<i>l/h</i>	384
Fuel Consumption Standby	<i>l/h</i>	414
Oil fuel consumption ratio	<i>%fuel</i>	≤0.1%
Total oil capacity including tubes, filters	<i>L</i>	237,2
Total coolant capacity	<i>L</i>	252
Governor	<i>Type</i>	Electronic
Electric system voltage(V)	<i>V</i>	24

Alternator Specifications

Manufacturer		Leroy Somer
Model		LSA50.L8
Output Voltage	<i>V</i>	230/400
Frequency	<i>HZ</i>	50
Automatic Voltage Regulation	<i>±%</i>	1
Alternator Standby Power	<i>kVA</i>	1650
Alternator Continuous Power	<i>kVA</i>	1525
Power Factor	<i>Cosφ</i>	0,8
Number of Wires		12
Winding		2/3
Protection Class		IP23 / H
Excitation System		Self Excited
AVR Model		R120
Performance - PF 0,8 / %75 Load	<i>%</i>	95.3

Alternative Alternator Brands



Prime Power (PRP):

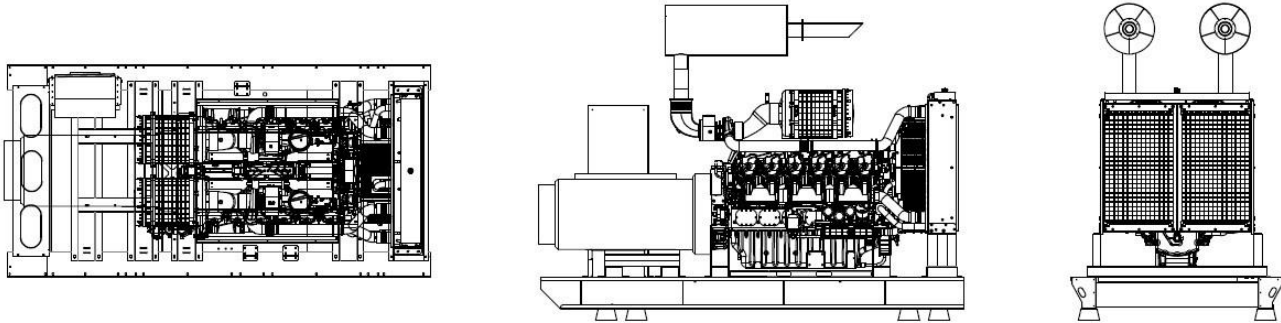
According to ISO 8528-1:2005, Prime power is the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. The permissible average power output (Ppp) over 24 h of operation shall not exceed 70 % of the PRP.

Emergency Standby Power (ESP):

According to ISO 8528-1:2005, Emergency standby power 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.

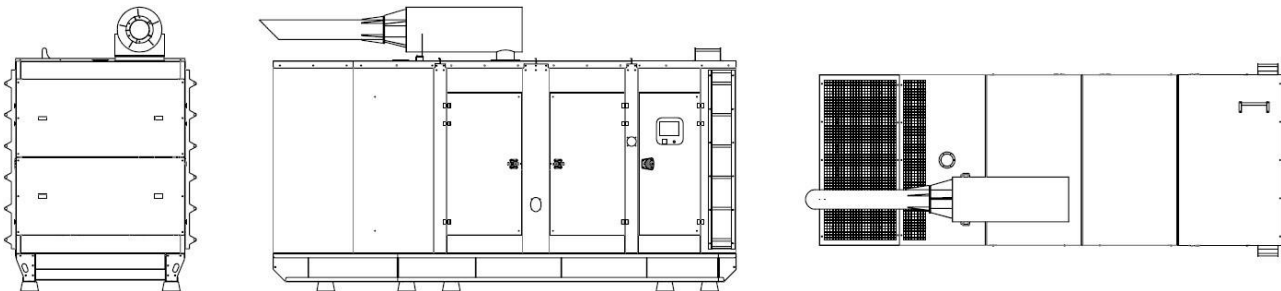
Note: All data based on operation to ISO 3046/1, BS 5514 and DIN 6271 standard reference conditions

DIMENSIONS



OPEN SET

LxWxH	mm	5130x2250x2800
Weight	kg	10462
Fuel Tank	lt	3500



CANOPIED

LxWxH	mm	9145x2470x3150
Weight	kg	16542
Fuel Tank	lt	3000

Sound Proof Canopy

- Special design for minimizing acoustic level.
- Galvanized steel construction further protected by polyester powder coat paint.
- Black finish stainless steel locks and hinges.
- Control panel viewing window in a lockable access door.
- Emergency stop push button (red) mounted on enclosure exterior.
- Lifting, drag and jacking points on base frame.
- Radiator fill via removable, flush mounted rain cap fitted with compression seal.
- Acoustic insulation with moisture-repellent and non-flammable material

CONTROL UNIT



DSE Genset

Control Unit

DSE 7320

Load switching	Internet Central Monitoring
Automatic load transfer	SMS / E-mail message sending
Unbalanced load protection	Flexible with plug-in modules
Engine controller	Free PC software: Rainbow Plus
Advanced sms messaging	Modbus RTU
Start & stop capability via sms messaging	