

## TECHNICAL DATA



Image for illustration purposes only.

Water cooled
 3Phase
 50 HZ
 50Hz
 Diesel

VOLTAGE: 400/230V

ENGINE	MAKE	MODEL		
	PERKINS	403A-11G1		
ALTERNATOR (GENERATOR)	BRUSHLESS			
PRIME POWER (PRP)	kVA	9	kW	7,2
STANDBY POWER (LTP)	kVA	10	kW	8
GENERATING SET AMPERES:	20A			

Ratings at 0.8 power factor.

**Ambiental reference conditions:** 100 kPa, 25 °C, 30% relative humidity. Rating according to ISO 3046 norms. Derating factor of engine 0.89 and alternator 0.93 at 50°C.

**1- PRP. Prime Power – ISO 8528:** prime power is the maximum power available for a variable power sequence, which may occur for an unlimited number of hours per year, between stated maintenance intervals.

The permissible average power output during a period of 24 hours shall not exceed 80% of the Prime Power. 10% overload is allowed for governing purposes only.

**2- LTP. Standby Power - ISO 8528:** is the maximum power available for the use at variable charges for a limited number of hours per year (500h), within the following maximum operating limits: 100% of charge (25h per year) – 90% of charge (200 hours per year). There is no overload. Applicable in case of failure of the main areas of reliable electrical network.

MANUAL CONTROLLER FOR PRIME OPERATIONS	MAKE	MODEL	AMPERES
	DEEP SEA ELECTRONICS	DSE6120MKII	25A

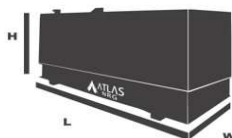
Or similar

### DIMENSIONS, CAPACITIES AND APPROXIMATE WEIGHT OPEN SET



(L) Length	mm	1300
(W) Width	mm	700
(H) Height	mm	1000
Weight	Kg	380
Fuel tank capacity	L	60

### DIMENSIONS, CAPACITIES AND APPROXIMATE WEIGHT SOUNDPROOFED SET



(L) Length	mm	1300
(W) Width	mm	700
(H) Height	mm	975
Weight	Kg	420
Fuel tank capacity	L	60

## ENGINE SPECIFICATIONS

ENGINE		PRIME	STANDBY		
Gross Engine Power	kW	8.6	9.5		
Manufacturer		PERKINS			
Model		403A-11G1			
Cylinder Arrangement		In Line / 3			
Cycle		4 Stroke			
Induction		Naturally Aspirated			
Cooling Method		Water			
Bore and Stroke	mm	75 x 81			
Governing Type		Mechanical			
Compression Ratio		23.01			
Displacement	L	1.028			
Engine Electrical System Voltage / Ground	Vcc (V)	12 / Negative			
Engine Electrical System Battery Charger	Ah	90			
FUEL SYSTEM		110% LOAD	100% LOAD	75% LOAD	50% LOAD
Fuel Consumption at Prime Power	l/hr	3.6	3.0	2.3	1.7
Fuel Oil Specification		Diesel			
Injection Type		Direct			
Fuel Tank Capacity	L	60			
Fuel Filter Type		Replaceable Element			
AIR SYSTEM		PRIME	STANDBY		
Combustion Air Flow	m <sup>3</sup> /min	0.8			
Max. Combustion Air Intake Restriction	kPa	-			
Air Filter Type		Replaceable Element			
COOLING SYSTEM					
Coolant Capacity for Engine	Liters	5,2			
LUBRICATION SYSTEM					
Total Oil Capacity	L	4,5			
Oil Cooling Method		Water			
Oil Filter Type		Replaceable Element			
EXHAUST SYSTEM		PRIME	STANDBY		
Exhaust Gas Flow	m <sup>3</sup> /min	2,22			
Max. Allowable Back Pressure	kPa	6			
Exhaust Gas Temperature	°C	500			
FLYWHEEL AND HOUSING					
High inertia flywheel to SAE J620	Size	6½			
Flywheel housing	SAE	4			

## ALTERNATOR SPECIFICATIONS

### ALTERNATOR

Excitation System		Brushless
Voltage	V	400/230
Insulation		Class H
Rated Power PRP	kVA	11
Rated Power LTP	kVA	12,1
Poles		4
Protection		IP 23
Voltage Regulation		A.V.R (Electronic)
Wires		12

**Note :**

All ATLAS NRG alternator meet the standard requirements of GB755, BS5000 Part 3, VDE0530, NEMA MG1-32, IEC-34, CSA C22-100, and AS1359.

## ATLAS NRG GENERATING SETS

### GENERAL DESCRIPTION OPEN SET

The engine and alternator are assembled together as a rigid monoblock with a flexible disc shaft connection. The monoblock is fitted in a steel base frame.

The assembly is realized according to CE procedures.

### GENERAL DESCRIPTION SOUNDPROOFED SET

It is an ideal solution when the energy is needed in areas where sound levels need to be low.

The soundproofed generating sets are equipped with a canopy made from steel sheet suitably protected with polyester powder paint and oven drying, degreasing and previous phosphating treatment, meeting the highest standards of quality.

The canopy is soundproofed with sound absorbing materials, covered by a washable veil, preventing the adhesion of dirt and helping to keep it clean.

The assembly is realized according to CE procedures.

### REGULATIONS

ATLAS NRG Generating Sets hold the "CE" marking and the corresponding Declaration of Conformity is issued with each of them, in which it specifies that the machines comply with:

- 2006/42/CE Machinery safety.
- 2005/88/EC Sound level outdoor equipment (amends the 2000/14/EC).
- 2014/30/UE Electromagnetic compatibility.
- 2014/35/UE Electrical safety for equipment designed to be used within certain voltage limits.
- 2012/46/EU Emissions of gaseous and particulate pollutants. (amends 97/68/EC)
- EN 12100, EN 13857, EN 60204

## WARRANTY

### WARRANTY FOR PRIME AND STANDBY APPLICATIONS

**For prime power (PRP) applications:** the products are warranted against defects in material and workmanship for a period of 12 months from date of commissioning or 1000 hours of operation, which ever comes first.

**For standby (LTP) applications:** the products are warranted against defects in material and workmanship for a period of 12 months from date of commissioning or 500 hours of operation, which ever comes first.

## SCOPE OF SUPPLY GENERATING SET

STANDBY AND PRIME RANGE	OPEN SETS	ENCLOSED SETS
Thermo-acoustic insulation, 40mm polyester foam insulation.	X	✓
Fuel tank integrated in the base frame provided with fuel level sensor and fuel connections to the engine.	✓	✓
Engine with mechanical engine driven pusher fan.	✓	✓
Industrial silencer with -19 dB(A) noise reduction and exhaust outlet tube.	✓	X
Residential silencer with -35 dB(A) noise reduction with exhaust tube and protection cap.	X	✓
Access doors with compression locks.	X	✓
Silent blocks.	✓	✓
Water Jacket heater for LTP use.	✓	✓
Battery charge alternator.	✓	✓
Starter battery complete with cables to the engine and pole protection.	✓	✓
Electrical installation.	✓	✓
Installation prepared for earthing spike (spike not included).	✓	✓
3 or 4 Pole circuit breaker. (as per customer's demand)	✓	✓
Differential protection.	✓	✓
External emergency stop push button.	✓	✓
Self excited and auto regulated alternator.	✓	✓
Manual engine oil extraction pump.	✓	✓
Tower crane lifting hook (for indicated models).	✓	✓
Lifting points.	✓	✓
Base frame adapted for trailers.	✓	✓
Electronic speed governor (at the indicated models).	✓	✓
Access hole for power cable outlet.	X	✓
STANDBY RANGE ONLY	OPEN SETS	ENCLOSED
Battery charger for generating sets with 12Vcc battery (2A).	✓	✓
Battery charger for generating sets with 24Vcc battery (5A).	✓	✓
OPTIONALS		
Socket boxes.		
Approved road trailer.		
Site trailer.		
Extendable fuel tank.		
Skids for rental use.		
Decanter prefilter (separates water from fuel).		
Manul fuel transfer pump.		
Automatic fuel transfer pump.		
3 way valve fuel filling system.		
BPA double sensor.		
Radiator water level sensor.		
Water Jacket heater optional for PRP use.		
Battery isolator.		
Radiator water temperature sensor.		
Anti condensation heater.		
GSM remote system.		
Fluid leakage detector.		
Battery charger (for PRP use).		
Drip pan.		
Galvanised enclosure and chassis.		
Automatic Transfer Switch (ATS).		



ISO9001