

GENERATING SETS



Service		Standby	Prime
Power	kVA	66	60
Power	kW	52,8	48
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 EC 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)
- 97/68/EC Emissions of gaseous and particulate pollutants. (amended by 2002/88/EC & 2004/26/EC)
- EN 12100, EN 13857, EN 60204

Ambient conditions of reference according to ISO 8528-1:2005 normative: 1000 mbar, 25°C, 30% relative humidity. G2 class load acceptance in accordance with ISO 8528-5:2013







SPECIFICATIONS



Engine



Alternator

Standby Power/Prime Power kWm 58,8 / 53,3 Manufacturer IVECO Model NEF45SM1A Engine Type 4 Stroke - Diesel Injection Type Direct Injection Aspiration Type Turbocharged Number of cylinder 4 Bore and Stroke mm 104×132 Displacement L 4,5 Cooling System Water Cooling Fuel Consumption 50% PRP I/h 7,0 Fuel Consumption 80% PRP I/h 10,2 Fuel Consumption 100 % PRP I/h 13,7 Fuel Consumption Standby I/h 15,0 Total oil capacity including tubes, filters L 12,8 Engine coolant capacity L 10 Governor Type Mechanical Electric system voltage(V) V 12	Engine	Prime	
Model Engine Type 4 Stroke - Diesel Injection Type Direct Injection Aspiration Type Number of cylinder Bore and Stroke Displacement L 4,5 Cooling System Water Cooling Fuel Consumption 50% PRP V/h Fuel Consumption 100 % PRP V/h Total oil capacity including tubes, filters Engine coolant capacity MEF45SM1A A Stroke - Diesel Direct Injection Aspiration Water Injection Water Colling Turbocharged A NEF45SM1A A Stroke - Diesel Turbocharged Number of cylinder 4 Bore and Stroke My 104×132 Water Cooling Total 102 Total oil capacity including tubes, filters L 100 Governor Type Mechanical	Standby Power/Prime Power	kWm	58,8 / 53,3
Engine Type Injection Type Injection Type Aspiration Type Number of cylinder Bore and Stroke Displacement L 4,5 Cooling System Fuel Consumption 50% PRP Fuel Consumption 100 % PRP Fuel Consumption Standby Fuel Consumption Standby Total oil capacity including tubes, filters Engine coolant capacity L As Stroke - Diesel Direct Injection A Stroke - Diesel Furbocharged Water Coling Furbocharged Water Cooling 7,0 10,2 13,7 Fuel Consumption 100 % PRP I/h 13,7 Fuel Consumption Standby I/h 15,0 Total oil capacity including tubes, filters L 10 Governor Type Mechanical	Manufacturer		IVECO
Injection Type Aspiration Type Number of cylinder Bore and Stroke Displacement L Cooling System Fuel Consumption 50% PRP Fuel Consumption 100 % PRP Fuel Consumption Standby Fuel Consumption Standby Total oil capacity including tubes, filters Engine coolant capacity Direct Injection Direct Injection Turbocharged A Water Cooling Puel Cooling Fuel Consumption 50% PRP I/h 10,2 Fuel Consumption 100 % PRP I/h 15,0 12,8 Engine coolant capacity L Governor Type Mechanical	Model		NEF45SM1A
Aspiration Type Number of cylinder Bore and Stroke Displacement L 4,5 Cooling System Fuel Consumption 50% PRP Fuel Consumption 80% PRP Fuel Consumption 100 % PRP Fuel Consumption Standby Fuel Consumption Standby Total oil capacity including tubes, filters Engine coolant capacity L Turbocharged A 104×132 Water Cooling Fuel Consumption 50% PRP I/h 10,2 13,7 Fuel Consumption Standby I/h 15,0 Total oil capacity including tubes, filters L 12,8 Engine coolant capacity L Governor Type Mechanical	Engine Type		4 Stroke - Diesel
Number of cylinder Bore and Stroke mm 104×132 4,5 Cooling System Water Cooling Fuel Consumption 50% PRP I/h Fuel Consumption 80% PRP I/h 10,2 Fuel Consumption 100 % PRP I/h 13,7 Fuel Consumption Standby I/h Total oil capacity including tubes, filters Engine coolant capacity Governor I ype Mechanical	Injection Type		Direct Injection
Bore and Stroke Displacement L 4,5 Cooling System Fuel Consumption 50% PRP V/h Fuel Consumption 80% PRP V/h Fuel Consumption 100 % PRP V/h 10,2 Fuel Consumption 100 % PRP V/h 13,7 Fuel Consumption Standby V/h Total oil capacity including tubes, filters L Engine coolant capacity L Governor Type Mechanical	Aspiration Type		Turbocharged
Displacement L 4,5 Cooling System Water Cooling Fuel Consumption 50% PRP I/h 7,0 Fuel Consumption 80% PRP I/h 10,2 Fuel Consumption 100 % PRP I/h 13,7 Fuel Consumption Standby I/h 15,0 Total oil capacity including tubes, filters L 12,8 Engine coolant capacity L Governor Type Mechanical	Number of cylinder		4
Cooling System Fuel Consumption 50% PRP I/h 7,0 Fuel Consumption 80% PRP I/h 10,2 Fuel Consumption 100 % PRP I/h 13,7 Fuel Consumption Standby I/h Total oil capacity including tubes, filters Engine coolant capacity L Governor Water Cooling 7,0 10,2 12,8 15,0 12,8 10 Mechanical	Bore and Stroke	mm	104×132
Fuel Consumption 50% PRP	Displacement	L	4,5
Fuel Consumption 80% PRP	Cooling System		Water Cooling
Fuel Consumption 100 % PRP	Fuel Consumption 50% PRP	l/h	7,0
Fuel Consumption Standby	Fuel Consumption 80% PRP	l/h	10,2
Total oil capacity including tubes, filters L 12,8 Engine coolant capacity L 10 Governor Type Mechanical	Fuel Consumption 100 % PRP	l/h	13,7
Engine coolant capacity L Governor Type Mechanical	Fuel Consumption Standby	l/h	15,0
Governor Type Mechanical	Total oil capacity including tubes, filters	L	12,8
- Type Mechanicat	Engine coolant capacity	L	10
Electric system voltage(V) / 12	Governor	Туре	Mechanical
	Electric system voltage(V)	V	12

Alternator	Specifications	
Brand		Leroy Somer
Model		M66
Output Voltage	V	230/400
Frequency	HZ	50
Automatic Voltage Regulation	±%	0,5
Alternator Stand By Power	kVA	66
Alternator Continuous Power	kVA	60
Power Factor	Cosq	0,8
Number of Wires		12
Winding		2/3
Protection Class		IP23 / H
Excition System		Self-excited
AVR Model		SX460
Performance - PF 0,8 / %75 Load %		89

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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.

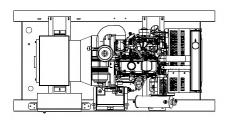
Emergency Standby Power (ESP):

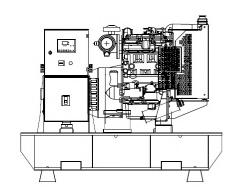
According to ISO 8528-1:2005, Emergency standby power is the maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 h 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.

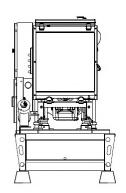
Note: All data based on operation to ISO 3046/1, BS 5514 and DIN 6271 standard reference conditions



DIMENSIONS

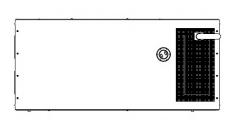


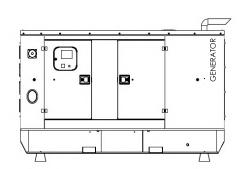


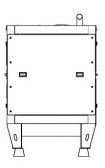


OPEN SET

LxWxH	mm	1950x900x1580
Weight	kg	
Fuel Tank	lt	225







CANOPIED

LxWxH	mm	2440x1000x1840
Weight	kg	
Fuel Tank	lt	225

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



- DeepSea 7320
- ComAp AMF9 / AMF25

