



INDUSTRIAL RANGE

GENSET KW IVECO / LEROY SOMER

1. MAIN FEATURES

 Three-phase	 Oil	
 Iveco / N67 TE8P	 Leroy Somer / TAL046D	
 Grupel / G545	 50 Hz	
 1500 r.p.m.	 400 V	
 0.8	 400 A	
Standby Power(ESP)	275 kVA	220 kW
Prime Power (PRP)	250 kVA	200 kW
Continuous Power(COP)	-	-

SOUNDPROOF

Length (L)	3100 mm	
Height (H)	1800 mm	
Width (W)	1185 mm	
Weight	2102 kg	
Daily tank	400 L	
Acoustic pressure level @ 1m	78 ± 3 dB(A)	
Acoustic pressure level @ 7m	65 ± 3 dB(A)	

2. ROOM INSTALLATION

EXHAUST SYSTEM	50 Hz		
	COP	PRP	ESP
Exhaust gas temperature (°C)	-	-	-
Exhaust gas flow (m³/min)	-	-	1048
Evacuated heat (kW)	-	-	-
Maximum back pressure (kPa)	5		
Exhaust silencer attenuation (dB)	18-25		
Output diameter (mm)	114		

VENTILATION SYSTEMS	50 Hz		
	COP	PRP	ESP
Combustion air flow (m³/min)	-	-	-
Cooling airflow (m³/min)	923		
Maximum load losses (Pa)	-		
Alternator cooling air flow (m³/min)	28.8		

RADIATION	50 Hz		
	COP	PRP	ESP
Engine (kW)	-	-	-
Alternator (kW)	14.6	14.6	17.16



3. ENGINE SPECIFICATIONS

GENERAL SPECIFICATIONS		50Hz
Model	N67 TE8P	
Emissions (UE/USEPA)	Not applicable / Not applicable	
Performance grade	G2	
Operating method	4 stroke	
Fuel type	Oil	
Refrigeration system	Closed water circuit / antifreeze	
Aspiration system	Turbo-aftercooled	
Injection system	Direct	
No. and Cylinder arrangement	6 In-line	
Displacement (L)	6.7	
Cylinder bore (mm)	104	
Cylinder stroke (mm)	132	
Compression ratio	17:1	
Regulation	Electronic	
Rotation speed (r.p.m.)	1500	
Piston speed (m/s)	6.6	
Gross power COP (kWm)	179	
Gross power PRP (kWm)	222.3	
Gross power ESP (kWm)	244.5	
Fan Power (kWm)	179 / 5 / 5	
Net Power COP (kWm)	0	
Net Power PRP (kWm)	217.3	
Net Power ESP (kWm)	239.5	
BMEP COP (kPa)	2137	
BMEP PRP (kPa)	2654	
BMEP ESP (kPa)	2919	



CONSUMPTION		50 Hz
Fuel consumption	l/h	g/kWh
ESP	59.5	205
PRP	52.3	198
COP	-	-
75%	38.6	195
50%	28.7	217.2
Oil consumption	< 0.3% of fuel consumption	

REFERENCE CONDITIONS	
Temperature (°C)	25
Atmospheric pressure (kPa)	100

CAPACITY (°C)	
Coolant (L)	15
Oil (L)	17

STARTING SYSTEM	
Voltage (V)	24
Power (kW)	-
Battery (Ah)	140

4. ALTERNATOR SPECIFICATIONS

GENERAL SPECIFICATIONS	
Model	TAL046D
Phases No.	Three-phase
Protection	IP23
Insulation	H
Temperature rise	H
R.F.I. telephone interference	THF < 2%
R.F.I. Suppression	IEC 61000-6-2/3/4, VDE 0875G/N, EN 55011
Coupling	Flexible disks
Support	Single bearing



Wave form distortion with no load	< 2,5%
Wave form distortion with balanced linear load	< 5%
Winding Leads	6
Excitation (standard/optional)	SHUNT / AREP+ / PMG
AVR Model (standard/optional)	R150 / R180 / R180
Voltage Regulation (standard/optional)	± 0,8 % / ± 0,5 % / ± 0,5 %
Icc (standard/optional)	- / 2,7In:5s

PF (cos Ø)	Phase	Voltage (V)	Power PRP/ESP (kVA)	Efficiency PRP/ESP (%)	Xd	X'd	X''d
0.8	Three-phase	400	250 / 275	92.7 / 92.2	3.7	0.186	0.149





5. CONTROL PANEL



GENSET	GrupeL G545
Voltage (F-F / F-N)	● / ●
Current intensity	●
Frequency	●
RMS Values	●
Generator phase sequence	●
Generator earth current [a]	●
No. of registers events	400
Real time clock	●
PIN Protection	●
kWh, kVar, kVAh, kVAh, cos Ø	●
Synchroscope [i]	○
Nº of available outputs [b]	4
Indication of alarms on LCD	●
Engine run hours	●
Total no. of LED indicators	15
No. of LED alarms	4
Sound signalling alarms	-
Scheduler	●
Fuel level	●

ELECTRICAL NETWORK	GrupeL G545
Voltage (F-F / F-N)	● / ●
Current [a]	○
Frequency	●
kVA, kW, cos Ø [a]	○
Inversion control between main-group	●

PROTECTIONS AND ALARMS	GrupeL G545
High / low battery voltage	A
Failure in battery charge alternator	A
Failure to stop	A/S
Failure to start	A/S
Low fuel level	A/S
Overload	A/S
Earth leakage	A/S
Asymmetry between phases	A/S
Maintenance	A/S
High / Low generator frequency	A/S
Engine overspeed	A/S
Engine underspeed	A/S
Generator overvoltage	A/S
Generator undervoltage	A/S
ECU Alert (if applicable)	A/S
Low oil pressure	A/S
Low level of radiator water [f]	A/S
Engine high temperature	A/S
Fuel leakage/ theft	A



6. CONTROL PANEL

ENGINE	Grupel G545	APPLICATIONS	Grupel G545
Engine speed	●	Automatic or manual starting	●
Low oil pressure protection	●	Remote start by NO dry contact	●
Oil pressure reading [c]	○	Automatic by mains failure	●
High temperature engine protection	●	Alternating with timesharing	●
Engine temperature reading [c]	○	Multi-generators synchronization and load sharing (max. 48 generators) [i]	○
Engine battery voltage	●	Generator-Main in synchronism and load sharing (1 generator and 1 main) [i]	○
Intensity of the engine battery [d]	○		
Fuel Consumption [e]	●		
Low level of radiator water [f]	○		
Engine maintenance scheduled	●		
COMMUNICATION	Grupel G545	OPTIONAL EXPANSIONS	Grupel G545
USB female type B (max. 6m)	●	G-08 (8 dig. inputs)	○
USB female type A [g]	○	G-06 (8 relay outputs)	○
RS232 port (max. 15m)	-	G-GSM (GSM and/or GPS by MLAT)	○
RS485 port (max. 1,2Km)	●	G-ETH (ethernet module)	○
Ethernet port RJ45 [g]	○	G-ETH (ethernet module according SNMP protocol)	○
GSM + location via MLAT [h]	○	G545 (mirror controller, maximum distance 1km)	○
ModBus RTU protocol	●	G175 (convert QTC into QTA)	○
ModBus TCP protocol [g]	○	G545 (convert QTC into QTA)	○
SNMP protocol [g]	○		
CAN port (max. 40m)	●		
MSC port (max. 240m) [i]	○		
PLC functionality	●		
Legenda		STANDARDS	
● Available		Working temperature	-30 ≤ °C ≤ 70
○ Optional		Protection index (when assembled with sealing gasket)	IP65 - Quando montado com junta de vedação
- Not available		Degree of humidity (during 48hr)	93%, 40°C durante 48h
A Warning Alarm			
S Stop alarm			
[a] Need additional CT			
[b] No. of outputs available for standard configuration. The outputs do not include relays and additional terminal connections.			
[c] If the information is not provided by the engine-ECU, you need an additional sensor			
[d] Needs additional ammeter			
[e] If information provided by the engine ECU			
[f] Required additional sensor			
[g] Requires G-ETH			
[h] Requires G-GSM			
[i] Requires G-Sync			

Dimensions and guiding weights. Environmental reference conditions: 100kPa, 25 °C, 30% relative humidity and fuel temperature below 40 °C. Power ratings according to ISO 8528-1:2018.

Emergency power (ESP): Maximum power available to supply variable loads for a maximum period of 200h/year. The average load factor in 24h of operation must not exceed 70% of the ESP regime. It does not allow overload.

Prime power (PRP): Maximum power available to supply variable loads for an unlimited number of hours. The average load factor in 24 hours of operation must not exceed 70% of the PRP rating. Allows an overload of 10% for a maximum period of 1 hour every 12 hours of operation. Overloading may not exceed 25 hours/year.

Continuous power (COP): Maximum power available to supply constant loads for an unlimited number of hours per year, between the maintenance intervals and environmental conditions advertised by the manufacturer.

These specifications are subject to change without notice.

DISTRIBUTOR



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