

INDUSTRIAL RANGE

1 MAIN FEATURES

T Triphasic	 Diesel fuel	 Perkins / 1206A-E70TTAG3	 Leroy somer / TAL046D	 / 7320
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Hz 50Hz	 1500 r.p.m.	V 400V	cos φ 0,8
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Standby power (STP)	275 kVA	220 kW
Prime Power (PRP)	250 kVA	200 kW
Power Continuous (COP)	- kVA	- kW

Hz 60Hz	 1800 r.p.m.	V 480V	cos φ 0,8
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Standby power (STP)	257 kVA	205 kW
Prime Power (PRP)	232 kVA	186 kW
Power Continuous (COP)	- kVA	- kW

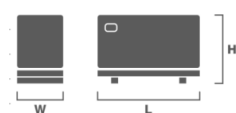
OPEN SKID

Length (L)	4015 mm
Height (H)	2145 mm
Width(W)	1410 mm
Weight	1914 kg
Daily tank	1000 L



SOUNDPROOF

Length (L)	4015 mm
Height (H)	2145 mm
Width (W)	1410 mm
Weight	2699 kg
Daily tank	1000 L



	50Hz	60Hz
Acoustic pressure level @1m	-	-
Acoustic pressure level @7m	-	-

	50Hz	60Hz
Acoustic pressure level @1m	78 dB(A)	79 dB(A)
Acoustic pressure level @7m	65 dB(A)	66 dB(A)

AVAILABLE VOLTAGES - 50Hz

FP (cos Ø)	Phase	Voltage	COP (kVA/kW)	PRP (kVA/kW)	STP (kVA/kW)	Circuit breaker (A)
0,8	Three-phase	440	- / -	238 / 190	262 / 209	400
1	Three-phase	440	- / -	190 / 190	209 / 209	250
0,8	Three-phase	415	- / -	249 / 199	272 / 217	400
1	Three-phase	415	- / -	200 / 200	220 / 220	400
0,8	Three-phase	400	- / -	250 / 200	275 / 220	400
1	Three-phase	400	- / -	200 / 200	220 / 220	400
0,8	Three-phase	380	- / -	242 / 193	264 / 211	400
1	Three-phase	380	- / -	202 / 202	220 / 220	400
0,8	Three-phase	240	- / -	249 / 199	272 / 217	630
1	Three-phase	240	- / -	200 / 200	220 / 220	630
0,8	Three-phase	230	- / -	248 / 198	271 / 217	630
1	Three-phase	230	- / -	200 / 200	220 / 220	630
0,8	Three-phase	220	- / -	238 / 190	262 / 209	630
1	Three-phase	220	- / -	190 / 190	209 / 209	630
0,8	Single phase	230	- / -	150 / 120	165 / 132	800
1	Single phase	230	- / -	120 / 120	132 / 132	630
0,8	Single phase	230	- / -	150 / 120	165 / 132	800
1	Single phase	230	- / -	120 / 120	132 / 132	630
0,8	Single phase	220	- / -	150 / 120	165 / 132	800
1	Single phase	220	- / -	120 / 120	132 / 132	630

AVAILABLE VOLTAGES - 60Hz

FP (cos Ø)	Phase	Voltage	COP (kVA/kW)	PRP (kVA/kW)	STP (kVA/kW)	Circuit breaker (A)
0,8	Three-phase	480	- / -	232 / 186	257 / 205	400
1	Three-phase	480	- / -	191 / 191	212 / 212	250
0,8	Three-phase	440	- / -	231 / 185	256 / 205	400
1	Three-phase	440	- / -	190 / 190	211 / 211	250
0,8	Three-phase	416	- / -	231 / 185	255 / 204	400
1	Three-phase	416	- / -	190 / 190	211 / 211	400
0,8	Three-phase	380	- / -	229 / 183	253 / 203	400
1	Three-phase	380	- / -	189 / 189	210 / 210	400
0,8	Three-phase	240	- / -	232 / 186	257 / 205	630
1	Three-phase	240	- / -	191 / 191	212 / 212	630
0,8	Three-phase	220	- / -	231 / 185	256 / 205	630
1	Three-phase	220	- / -	190 / 190	211 / 211	630
0,8	Three-phase	208	- / -	231 / 185	255 / 204	800
1	Three-phase	208	- / -	190 / 190	211 / 211	630
0,8	Single phase	240	- / -	165 / 132	182 / 146	800
1	Single phase	240	- / -	132 / 132	146 / 146	630
0,8	Single phase	240	- / -	165 / 132	182 / 146	800
1	Single phase	240	- / -	132 / 132	145 / 145	630
0,8	Single phase	230	- / -	165 / 132	182 / 146	800
1	Single phase	230	- / -	132 / 132	146 / 146	630

2 ROOM INSTALLATION

EXHAUST SYSTEM	50 Hz			60 Hz		
	COP	PRP	STP	COP	PRP	STP
Exhaust gas temperature (°C)	-	515,8	511	-	455,7	505,2
Exhaust gas flow (m³/min)	-	30,9	33,66	-	-	-
Evacuated Heat (kW)	-	240,8	281,6	-	218,1	246,2 6
Maximum back pressure (kPa)	35					
Exhaust silencer attenuation (dB)	18-25					
Output Diameter (mm)	168					

VENTILATION SYSTEMS	50 Hz			60 Hz		
	COP	PRP	STP	COP	PRP	STP
Combustion air flow (m³/min)	-	13,5	15,7	-	14	14
Cooling airflow (m³/min)	265,2			265,2		
Maximum load losses (Pa)	200					
RADIATION	50 Hz			60 Hz		
	COP	PRP	STP	COP	PRP	STP
Engine (kW)	116,7	116,7	126,6	127,1	127,1	140
Alternator (kW)	14,6	14,6	17,2	20,4	20,4	23,6
Alternator (kW)	11,4	11,4	13,1	13,9	13,9	15,9

3 ENGINE SPECIFICATIONS

GENERAL SPECIFICATIONS	50 Hz	60 Hz
Model	1206A-E70TTAG3	
Emissions	Not satisfy 97/68/EC	
Performance grade	G2	
Operating method	Four stroke	
Fuel type	Diesel fuel	
Refrigeration system	Water/antifreeze Closed Circuit	
Aspiration system	Turbocharged	
Injection system	Direct	
No. and Cylinder arrangement	6 In-Line	
Displacement (L)	7,01	
Cylinder bore (mm)	105	
Cylinder stroke (mm)	135	
Compression Ratio	15.8:1	
Regulation	Electronic	
Rotation speed	1500	1800
Piston Speed (m/s)	6,4	6,77
Gross power COP (kWm)	-	-
Gross power PRP (kWm)	226,2	217
Gross power STP (kWm)	248,6	239,6
Fan power (kWm)	9	15
Net Power COP (kWm)	-	-
Net Power PRP (kWm)	217,2	202
Net Power STP (kWm)	238,3	224,6
BMEP COP (kPa)	-	-
BMEP PRP (kPa)	2582,3	2064,4
BMEP STP (kPa)	2822,9	2279,6



CONSUMPTION		50Hz		60Hz	
Fuel consumption	LOAD	lt/h	g/kWh	lt/h	g/kWh
STP	100%	64,5	219,6	61,1	215,2
PRP	100%	56,9	212,3	54,5	211,7
	75%	41,5	206,1	40,4	209,3
	50%	28,1	209,6	27,8	216,4
COP	100%	-	-	-	-
	75%	-	-	-	-
	50%	-	-	-	-
Oil consumption		-			
REFERENCE CONDITIONS					
Temperature (°C)		25			
Atmospheric pressure (kPa)		100			
CAPACITY					
Coolant (L)		25			
Oil (L)		16			
STARTING SYSTEM					
Voltage (V)		12			
Power (kW)		5			
Battery (Ah)		155			

4 ALTERNATOR SPECIFICATIONS

GENERAL SPECIFICATIONS	
Model	TAL046D
Phases No.	Triphasic
Protection	IP23
Insulation	H
Temperature Rise	H
50Hz R.F.I. telephone interference	THF<2%
60Hz R.F.I. telephone interference	TIF<50
R.F.I. Suppression	CEM 2014/30/UE
Coupling	Semi-Flexible



Wave form distortion with no load	< 3,5%
Wave form distortion with balanced linear load	< 5%
Winding Leads	6
Excitation (standard / option)	SHUNT / AREP
AVR Model (standard / option)	R150 / R180



INDUSTRIAL RANGE

RATED POWER - 50Hz								RATED POWER - 60Hz							
FP (cos Ø)	Phase	Voltage (V)	Power PRP/STP (kVA)	Efficiency PRP/STP (%)	Xd	X'd	X''d	FP (cos Ø)	Phase	Voltage (V)	Power PRP/STP (kVA)	Efficiency PRP/STP (%)	Xd	X'd	X''d
0,8	Three-phase	440	238 / 262	91,8 / 91,5	2,910	0,146	0,117	0,8	Three-phase	480	313 / 344	91,8 / 91,4	3,860	0,194	0,155
1	Three-phase	440	190 / 209	94,6 / 94,5	2,910	0,146	0,117	1	Three-phase	480	250 / 275	94,4 / 94,2	3,860	0,194	0,155
0,8	Three-phase	415	250 / 275	91,6 / 91,1	3,440	0,173	0,138	0,8	Three-phase	440	280 / 308	91,6 / 91,2	4,110	0,207	0,165
1	Three-phase	415	200 / 220	94,5 / 94,2	3,440	0,173	0,138	1	Three-phase	440	224 / 246	94,3 / 94,0	4,110	0,207	0,165
0,8	Three-phase	400	250 / 275	92,7 / 92,2	3,700	0,186	0,149	0,8	Three-phase	416	265 / 292	91,4 / 90,9	4,350	0,219	0,175
1	Three-phase	400	200 / 220	94,3 / 94,0	3,700	0,186	0,149	1	Three-phase	416	212 / 233	94,0 / 93,8	4,350	0,219	0,175
0,8	Three-phase	380	340 / 264	89,0 / 90,9	5,580	0,281	0,225	0,8	Three-phase	380	245 / 270	90,8 / 90,3	4,820	0,243	0,194
1	Three-phase	380	272 / 299	92,8 / 92,3	5,580	0,281	0,225	1	Three-phase	380	196 / 216	93,6 / 93,3	4,820	0,243	0,194
0,8	Three-phase	240	250 / 275	91,6 / 91,1	3,440	0,173	0,138	0,8	Three-phase	240	313 / 344	91,8 / 91,4	3,860	0,194	0,155
1	Three-phase	240	200 / 220	94,5 / 94,2	3,440	0,173	0,138	1	Three-phase	240	250 / 275	94,4 / 94,2	3,860	0,194	0,155
0,8	Three-phase	230	250 / 275	91,4 / 90,9	3,700	0,186	0,149	0,8	Three-phase	220	280 / 308	91,6 / 91,2	4,110	0,207	0,165
1	Three-phase	230	200 / 220	94,3 / 94,0	3,700	0,186	0,149	1	Three-phase	220	224 / 246	94,3 / 94,0	4,110	0,207	0,165
0,8	Three-phase	220	238 / 262	91,8 / 91,5	2,910	0,146	0,117	0,8	Three-phase	208	265 / 292	91,4 / 90,9	4,350	0,219	0,175
1	Three-phase	220	190 / 209	94,6 / 94,5	2,910	0,146	0,117	1	Three-phase	208	212 / 233	94,0 / 93,8	4,350	0,219	0,175
0,8	Single phase	230	150 / 165	83,8 / 82,9	1,770	0,220	0,180	0,8	Single phase	240	165 / 182	82,2 / 81,1	2,460	0,270	0,210
1	Single phase	230	120 / 132	88,8 / 88,2	1,770	0,220	0,180	1	Single phase	240	132 / 146	87,4 / 86,7	2,460	0,270	0,210
0,8	Single phase	230	150 / 165	87,2 / 86,4	6,720	0,338	0,271	0,8	Single phase	240	165 / 182	86,5 / 85,6	8,140	0,410	0,328
1	Single phase	230	120 / 132	91,3 / 90,8	6,720	0,338	0,271	1	Single phase	240	132 / 145	90,5 / 90,0	8,140	0,410	0,328
0,8	Single phase	220	150 / 165	83,8 / 82,9	1,930	0,240	0,190	0,8	Single phase	230	165 / 182	82,2 / 81,1	2,680	0,290	0,230
1	Single phase	220	120 / 132	88,8 / 88,2	1,930	0,240	0,190	1	Single phase	230	132 / 146	87,4 / 86,7	2,680	0,290	0,230

5 CONTROL PANEL



GENSET	DEEPSEA 7320	OPTIONAL
Voltage (Ph-Ph / Ph-N)	• / •	• / •
Current intensity	•	•
Frequency	•	•
RMS values	•	•
Generator phase sequence	•	•
Generator earth current [a]	0	0
No. of registers events	250	250
Real time clock	•	•
PIN protection	•	•
kWh, kVAr, kVAh, kVArh, cos Ø	•	•
Synchroscope (m)	-	0
Nº of available outputs [b]	6	6
Engine run hours	•	•
Indication of alarms on LCD	•	•
Total no. of LED indicators	12	12
No. of LED alarms	4	4
Sound signalling alarms	•	•
Scheduler	•	•
Fuel Level	•	•

Electrical network	DEEPSEA 7320	OPTIONAL
Voltage (Ph-Ph / Ph-N)	• / •	• / •
Current intensity [a]	-	0
Frequency	•	•
kVA,kW, cos Ø (a)	-	0
Inversion control between main-group	•	•
Protections and Alarms	DEEPSEA 7320	OPTIONAL
High / low battery voltage	A	0
Failure in Battery Charge Alternator	A	0
Failure to stop	A/S	A/S
Failure to start	A/S	A/S
Low fuel level	A/S	A/S
Overload	A/S	A/S
Earth leakage	A/S	A/S
Asymmetry between phases	A/S	A/S
Maintenance	A/S	A/S
High / Low generator frequency	A/S	A/S
Engine overspeed	A/S	A/S
Engine underspeed	A/S	A/S
Generator overvoltage	A/S	A/S
Generator undervoltage	A/S	A/S
ECU Alert (if applicable)	A/S	A/S
Low oil pressure	A/S	A/S
Low level of radiator water [f]	A/S	A/S
Engine high temperature	A/S	A/S
Fuel leakage/ theft	A	0



CONTROL PANEL

Applications	DEEPSEA 7320	OPTIONAL
Automatic or manual starting	•	•
Remote start by NO dry contact	•	•
Automatic by mains failure	•	•
Alternating with timesharing	•	•
Multi-generators synchronization and load sharing (Max. 32 generators) (m)	-	0
Generator-Main in synchronism and load sharing (1 generator and 1 main) (m)	-	0
Optional expansions	DEEPSEA 7320	OPTIONAL
DSE2130 (8 inputs dig.) IG-IOM (8 in/outputs dig. + 4 inputs anal.) G-08 (8 inputs dig.)	•	•
DSE2157 I-RB8 G-06 (8 relay outputs)	•	•
DSE890 IL-NT-GPRS G-GSM (GSM and/or GPS)	•	•
DSE891 IB-LITE G-ETH (ethernet module)	•	•
DSE892 IB-LITE - (ethernet module according SNMP protocol)	•	•
DSE2548 IGL-RA15 - (expansion with 8 additional LEDs)	•	•
DSE2510 / 20 (mirror controller, maximum distance 1km)	•	•
Standards		
Working temperature	-30 -> 70°C	
Protection index (when assembled with sealing gasket)	IP65	
Degree of humidity (during 48hr)	93% / 40°C	

Indicative weights and dimensions. Reference ambient conditions: 100kPa, 25°C, 30% relative humidity and fuel temperature below 40°C. Power in accordance with ISO 8528:Continuous power (PRP): Maximum available power to feed a variable electrical load for an unlimited period. The average of load factor in 24h of operation, shall not exceed 70% of the PRP. Admits 10% of overload during the maximum period of 1h every 12h of operation. The operation under overload shall not exceed 25h/year. Emergency Power (STP): Maximum available power to feed variable electrical load for a maximum period of 200h/year. The average of load factor in 24h of operation shall not exceed 70% of the STP. No overload. These specifications are subject to change without notice.