



INDUSTRIAL RANGE

1 MAIN FEATURES

T Triphasic	 Diesel fuel	 Perkins / 1106A-70TG1	 Leroy somer / TAL044H	 / 7320
--------------------	---	---	---	--

Hz 50Hz	 1500 r.p.m.	V 400V	cos φ 0,8
----------------	---	---------------	------------------

Standby power (STP)	150 kVA	120 kW
Prime Power (PRP)	136 kVA	109 kW
Power Continuous (COP)	- kVA	- kW

Hz 60Hz	 1800 r.p.m.	V 480V	cos φ 0,8
----------------	--	---------------	------------------

Standby power (STP)	171 kVA	137 kW
Prime Power (PRP)	154 kVA	123 kW
Power Continuous (COP)	- kVA	- kW

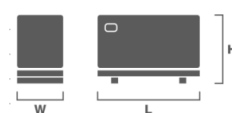
OPEN SKID

Length (L)	3100 mm
Height (H)	1790 mm
Width(W)	1165 mm
Weight	1405 kg
Daily tank	400 L



SOUNDPROOF

Length (L)	3100 mm
Height (H)	1790 mm
Width (W)	1165 mm
Weight	1955 kg
Daily tank	400 L



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

	50Hz	60Hz
Acoustic pressure level @1m	74 dB(A)	77 dB(A)
Acoustic pressure level @7m	61 dB(A)	64 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	- / -	122 / 98	134 / 107	160
1	Three-phase	440	- / -	98 / 98	107 / 107	160
0,8	Three-phase	415	- / -	135 / 108	149 / 119	200
1	Three-phase	415	- / -	108 / 108	119 / 119	160
0,8	Three-phase	400	- / -	136 / 109	150 / 120	200
1	Three-phase	400	- / -	108 / 108	119 / 119	160
0,8	Three-phase	380	- / -	135 / 108	149 / 119	250
1	Three-phase	380	- / -	108 / 108	119 / 119	200
0,8	Three-phase	240	- / -	135 / 108	149 / 119	400
1	Three-phase	240	- / -	108 / 108	119 / 119	400
0,8	Three-phase	230	- / -	135 / 108	149 / 119	400
1	Three-phase	230	- / -	108 / 108	119 / 119	400
0,8	Three-phase	220	- / -	122 / 98	134 / 107	400
1	Three-phase	220	- / -	98 / 98	107 / 107	400
0,8	Single phase	230	- / -	73 / 58	80 / 64	400
1	Single phase	230	- / -	58 / 58	64 / 64	400
0,8	Single phase	230	- / -	73 / 58	80 / 64	400
1	Single phase	230	- / -	58 / 58	64 / 64	400
0,8	Single phase	220	- / -	73 / 58	80 / 64	400
1	Single phase	220	- / -	58 / 58	64 / 64	400

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	- / -	154 / 123	171 / 137	200
1	Three-phase	480	- / -	127 / 127	141 / 141	160
0,8	Three-phase	440	- / -	155 / 124	171 / 136	250
1	Three-phase	440	- / -	124 / 124	136 / 136	200
0,8	Three-phase	416	- / -	146 / 117	161 / 128	250
1	Three-phase	416	- / -	117 / 117	128 / 128	200
0,8	Three-phase	380	- / -	134 / 107	147 / 118	250
1	Three-phase	380	- / -	107 / 107	118 / 118	200
0,8	Three-phase	240	- / -	154 / 123	171 / 137	400
1	Three-phase	240	- / -	127 / 127	141 / 141	400
0,8	Three-phase	220	- / -	155 / 124	171 / 136	630
1	Three-phase	220	- / -	124 / 124	136 / 136	400
0,8	Three-phase	208	- / -	146 / 117	161 / 128	630
1	Three-phase	208	- / -	117 / 117	128 / 128	400
0,8	Single phase	240	- / -	81 / 65	89 / 71	400
1	Single phase	240	- / -	65 / 65	71 / 71	400
0,8	Single phase	240	- / -	81 / 65	89 / 71	400
1	Single phase	240	- / -	65 / 65	71 / 71	400
0,8	Single phase	230	- / -	81 / 65	89 / 71	400
1	Single phase	230	- / -	65 / 65	71 / 71	400

2 ROOM INSTALLATION

EXHAUST SYSTEM	50 Hz			60 Hz		
	COP	PRP	STP	COP	PRP	STP
Exhaust gas temperature (°C)	-	576	576	-	526	526
Exhaust gas flow (m³/min)	-	20,75	22,66	-	-	-
Evacuated Heat (kW)	-	89,8	102	-	113,6	124,5
Maximum back pressure (kPa)	6					
Exhaust silencer attenuation (dB)	18-25					
Output Diameter (mm)	114					

VENTILATION SYSTEMS	50 Hz			60 Hz		
	COP	PRP	STP	COP	PRP	STP
Combustion air flow (m³/min)	-	7,64	8,09	-	11,28	11,86
Cooling airflow (m³/min)	252			252		
Maximum load losses (Pa)	120					
RADIATION	50 Hz			60 Hz		
	COP	PRP	STP	COP	PRP	STP
Engine (kW)	13,5	13,5	16,4	13,7	13,7	14,9
Alternator (kW)	8,7	8,7	10,0	10,2	10,2	11,7
Alternator (kW)	5,6	5,6	6,4	6,9	6,9	7,8

3 ENGINE SPECIFICATIONS

GENERAL SPECIFICATIONS	50 Hz	60 Hz
Model	1106A-70TG1	
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	18,2:1	
Regulation	Mechanic	
Rotation speed	1500	1800
Piston Speed (m/s)	6,8	8,1
Gross power COP (kWm)	-	-
Gross power PRP (kWm)	122,7	140,5
Gross power STP (kWm)	135,8	155,4
Fan power (kWm)	4,4	7
Net Power COP (kWm)	-	-
Net Power PRP (kWm)	118,3	133,5
Net Power STP (kWm)	131,4	148,4
BMEP COP (kPa)	-	-
BMEP PRP (kPa)	1400,3	1336
BMEP STP (kPa)	1549,8	1478



CONSUMPTION		50Hz		60Hz	
Fuel consumption	LOAD	lt/h	g/kWh	lt/h	g/kWh
STP	100%	33,8	205,9	38,8	209,7
	100%	30,3	203	35,2	210,9
	75%	22,7	204,5	26,5	210,8
PRP	50%	15,9	213,9	18	209,3
	100%	-	-	-	-
	75%	-	-	-	-
COP	50%	-	-	-	-
	50%	-	-	-	-
Oil consumption		< 0,1% of fuel consumption			
REFERENCE CONDITIONS					
Temperature (°C)			25		
Atmospheric pressure (kPa)			100		
CAPACITY					
Coolant (L)			21		
Oil (L)			18		
STARTING SYSTEM					
Voltage (V)			12		
Power (kW)			4,2		
Battery (Ah)			155		

4 ALTERNATOR SPECIFICATIONS

GENERAL SPECIFICATIONS	
Model	TAL044H
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)	R120 / 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	122 / 134	91,4 / 91,2	2,700	0,125	0,075	0,8	Three-phase	480	169 / 186	92,4 / 92,1	3,770	0,175	0,105
1	Three-phase	440	98 / 107	94,4 / 94,4	2,700	0,125	0,075	1	Three-phase	480	135 / 149	94,9 / 94,8	3,770	0,175	0,105
0,8	Three-phase	415	135 / 149	91,9 / 91,5	3,360	0,156	0,093	0,8	Three-phase	440	155 / 171	92,6 / 92,2	4,120	0,191	0,114
1	Three-phase	415	108 / 119	94,8 / 94,6	3,360	0,156	0,093	1	Three-phase	440	124 / 136	94,9 / 94,7	4,120	0,191	0,114
0,8	Three-phase	400	136 / 150	92,0 / 91,6	3,610	0,167	0,100	0,8	Three-phase	416	146 / 161	92,5 / 92,2	4,340	0,201	0,120
1	Three-phase	400	108 / 119	94,8 / 94,6	3,610	0,167	0,100	1	Three-phase	416	117 / 128	94,8 / 94,6	4,340	0,201	0,120
0,8	Three-phase	380	135 / 149	92,0 / 91,5	4,000	0,186	0,111	0,8	Three-phase	380	134 / 147	92,2 / 91,8	4,770	0,221	0,132
1	Three-phase	380	108 / 119	94,7 / 94,5	4,000	0,186	0,111	1	Three-phase	380	107 / 118	94,6 / 94,3	4,770	0,221	0,132
0,8	Three-phase	240	135 / 149	91,9 / 91,5	3,360	0,156	0,093	0,8	Three-phase	240	169 / 186	92,4 / 92,1	3,770	0,175	0,105
1	Three-phase	240	108 / 119	94,8 / 94,6	3,360	0,156	0,093	1	Three-phase	240	135 / 149	94,9 / 94,8	3,770	0,175	0,105
0,8	Three-phase	230	135 / 149	92,0 / 91,6	3,610	0,167	0,100	0,8	Three-phase	220	155 / 171	92,6 / 92,2	4,120	0,191	0,114
1	Three-phase	230	108 / 119	94,8 / 94,6	3,610	0,167	0,100	1	Three-phase	220	124 / 136	94,9 / 94,7	4,120	0,191	0,114
0,8	Three-phase	220	122 / 134	91,4 / 91,2	2,700	0,125	0,075	0,8	Three-phase	208	146 / 161	92,5 / 92,2	4,340	0,201	0,120
1	Three-phase	220	98 / 107	94,4 / 94,4	2,700	0,125	0,075	1	Three-phase	208	117 / 128	94,8 / 94,6	4,340	0,201	0,120
0,8	Single phase	230	73 / 80	88,0 / 87,5	1,390	0,180	0,110	0,8	Single phase	240	81 / 89	89,3 / 88,9	2,100	0,220	0,130
1	Single phase	230	58 / 64	92,4 / 92,3	1,390	0,180	0,110	1	Single phase	240	65 / 71	92,4 / 92,3	2,100	0,220	0,130
0,8	Single phase	230	73 / 80	86,1 / 85,2	1,990	0,180	0,108	0,8	Single phase	240	81 / 89	86,2 / 85,5	2,440	0,220	0,132
1	Single phase	230	58 / 64	90,9 / 90,6	1,990	0,180	0,108	1	Single phase	240	65 / 71	90,2 / 89,9	2,440	0,220	0,132
0,8	Single phase	220	73 / 80	88,0 / 87,5	1,510	0,200	0,120	0,8	Single phase	230	81 / 89	89,3 / 88,9	2,290	0,240	0,140
1	Single phase	220	58 / 64	92,4 / 92,3	1,510	0,200	0,120	1	Single phase	230	65 / 71	92,4 / 92,3	2,290	0,240	0,140

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, kVAh, kVAh, kVAh, 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

