

INDUSTRIAL RANGE

1 MAIN FEATURES

T Triphasic	 Diesel fuel	 Iveco / CR13 TE7W	 GrupeL / 314GB400	 / 7320
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Hz 50Hz	 1500 r.p.m.	V 400V	cos φ 0,8
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Standby power (STP)	440 kVA	352 kW
Prime Power (PRP)	400 kVA	320 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)	495 kVA	396 kW
Prime Power (PRP)	450 kVA	360 kW
Power Continuous (COP)	- kVA	- kW

OPEN SKID

Length (L)	4500 mm
Height (H)	2240 mm
Width(W)	1750 mm
Weight	3221 kg
Daily tank	1000 L

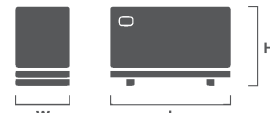


50Hz	60Hz
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Acoustic pressure level @1m	-	-
Acoustic pressure level @7m	-	-

SOUNDPROOF

Length (L)	4500 mm
Height (H)	2240 mm
Width (W)	1750 mm
Weight	4294 kg
Daily tank	1000 L



50Hz	60Hz
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Acoustic pressure level @1m	80 dB(A)	82 dB(A)
Acoustic pressure level @7m	67 dB(A)	69 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	- / -	369 / 295	406 / 325	630
0,8	Three-phase	415	- / -	400 / 320	440 / 352	630
0,8	Three-phase	400	- / -	400 / 320	440 / 352	630
0,8	Three-phase	380	- / -	400 / 320	440 / 352	630
0,8	Three-phase	240	- / -	400 / 320	440 / 352	1000
0,8	Three-phase	230	- / -	400 / 320	440 / 352	1000
0,8	Three-phase	220	- / -	369 / 295	406 / 325	1000
0,8	Single phase	240	- / -	240 / 192	263 / 210	1000
1	Single phase	240	- / -	192 / 192	211 / 211	800
0,8	Single phase	230	- / -	240 / 192	263 / 210	1250
1	Single phase	230	- / -	192 / 192	211 / 211	1000
0,8	Single phase	220	- / -	240 / 192	263 / 210	1250
1	Single phase	220	- / -	192 / 192	211 / 211	1000

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	- / -	450 / 360	495 / 396	630
0,8	Three-phase	460	- / -	450 / 360	495 / 396	630
0,8	Three-phase	440	- / -	450 / 360	495 / 396	630
0,8	Three-phase	416	- / -	450 / 360	495 / 396	630
0,8	Three-phase	240	- / -	450 / 360	495 / 396	1250
0,8	Three-phase	230	- / -	450 / 360	495 / 396	1250
0,8	Three-phase	220	- / -	450 / 360	495 / 396	1250
0,8	Three-phase	208	- / -	450 / 360	495 / 396	1250
0,8	Single phase	240	- / -	263 / 210	289 / 231	1250
1	Single phase	240	- / -	262 / 262	288 / 288	1250
0,8	Single phase	230	- / -	263 / 210	289 / 231	1250
1	Single phase	230	- / -	262 / 262	288 / 288	1250
0,8	Single phase	220	- / -	263 / 210	289 / 231	1250
1	Single phase	220	- / -	262 / 262	288 / 288	1250

2 ROOM INSTALLATION

EXHAUST SYSTEM	50 Hz			60 Hz		
	COP	PRP	STP	COP	PRP	STP
Exhaust gas temperature (°C)	-	520	-	-	510	-
Exhaust gas flow (kg/h)	-	-	2027	-	-	2359
Evacuated Heat (kW)	-	294,6	324,3	-	325,9	358,3
Maximum back pressure (kPa)	5					
Exhaust silencer attenuation (dB)	30					
Output Diameter (mm)	168					

VENTILATION SYSTEMS	50 Hz			60 Hz		
	COP	PRP	STP	COP	PRP	STP
Combustion air flow (m³/min)	-	26,3	-	-	31	-
Cooling airflow (m³/min)	408			510		
Maximum load losses (Pa)	196					
RADIATION	50 Hz			60 Hz		
	COP	PRP	STP	COP	PRP	STP
Engine (kW)	17,7	17,7	19,5	19,4	19,4	21,4
Alternator (kW)	22,4	22,4	24,6	23,4	23,4	25,7

3 ENGINE SPECIFICATIONS

GENERAL SPECIFICATIONS	50 Hz	60 Hz
Model	CR13 TE7W	
Emissions	Not satisfy 97/68/EC	
Performance grade	G3	
Operating method	Four stroke	
Fuel type	Diesel fuel	
Refrigeration system	Water/antifreeze Closed Circuit	
Aspiration system	Turbocharged	
Injection system	Common rail	
No. and Cylinder arrangement	6 In-Line	
Displacement (L)	12,88	
Cylinder bore (mm)	135	
Cylinder stroke (mm)	150	
Compression Ratio	16,5:1	
Regulation	Electronic	
Rotation speed	1500	1800
Piston Speed (m/s)	7,5	9
Gross power COP (kWm)	-	-
Gross power PRP (kWm)	436,4	464
Gross power STP (kWm)	480	510
Fan power (kWm)	21	36
Net Power COP (kWm)	-	-
Net Power PRP (kWm)	426,4	428
Net Power STP (kWm)	470	474
BMEP COP (kPa)	-	-
BMEP PRP (kPa)	2682,7	2380,4
BMEP STP (kPa)	2980,7	2639,2



CONSUMPTION		50Hz		60Hz	
Fuel consumption	LOAD	lt/h	g/kWh	lt/h	g/kWh
STP	100%	112,6	195,8	123,3	202
	100%	100,6	192,7	110,9	199,6
PRP	75%	80,2	191,7	87,7	196,9
	50%	51,5	197,7	57	204,3
COP	100%	-	-	-	-
	75%	-	-	-	-
	50%	-	-	-	-
Oil consumption		< 0,2% of fuel consumption			
REFERENCE CONDITIONS					
Temperature (°C)			40		
Atmospheric pressure (kPa)			100		
CAPACITY					
Coolant (L)			32		
Oil (L)			38,1		
STARTING SYSTEM					
Voltage (V)			24		
Power (kW)			7,8		
Battery (Ah)			155		

4 ALTERNATOR SPECIFICATIONS

GENERAL SPECIFICATIONS	
Model	314GB400
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	BS EN 61000-6-2 / 6-4, VDE 0875G, VDE 0875N.
Coupling	Semi-Flexible
Support	Single bearing



Wave form distortion with no load	< 1,5%
Wave form distortion with balanced linear load	< 5%
Winding Leads	12
Excitation (standard / option)	Self-excited / PMG
AVR Model (standard / option)	SX440/ MX341
Voltage Regulation (standard / option)	± 1,0%/ ± 0,5%



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	369 / 406	93,5 / 93,5	2,160	0,130	0,100	0,8	Three-phase	480	450 / 495	93,5 / 93,5	2,820	0,160	0,110
0,8	Three-phase	415	400 / 440	93,3 / 93,3	2,160	0,130	0,100	0,8	Three-phase	460	450 / 495	93,0 / 93,0	2,820	0,160	0,110
0,8	Three-phase	400	400 / 440	93,0 / 93,0	2,160	0,130	0,100	0,8	Three-phase	440	450 / 495	92,8 / 92,8	2,820	0,160	0,110
0,8	Three-phase	380	400 / 440	92,8 / 92,8	2,160	0,130	0,100	0,8	Three-phase	416	450 / 495	92,5 / 92,5	2,820	0,160	0,110
0,8	Three-phase	240	400 / 440	93,3 / 93,3	2,160	0,130	0,100	0,8	Three-phase	240	450 / 495	93,5 / 93,5	2,820	0,160	0,110
0,8	Three-phase	230	400 / 440	93,0 / 93,0	2,160	0,130	0,100	0,8	Three-phase	230	450 / 495	93,0 / 93,0	2,820	0,160	0,110
0,8	Three-phase	220	369 / 406	93,5 / 93,5	2,160	0,130	0,100	0,8	Three-phase	220	450 / 495	92,8 / 92,8	2,820	0,160	0,110
0,8	Single phase	240	240 / 263	94,2 / 94,2	2,160	0,130	0,100	0,8	Three-phase	208	450 / 495	92,5 / 92,5	2,820	0,160	0,110
1	Single phase	240	240 / 264	94,2 / 94,2	2,160	0,130	0,100	0,8	Single phase	240	263 / 289	94,2 / 94,2	2,820	0,160	0,110
0,8	Single phase	230	240 / 263	94,2 / 94,2	2,160	0,130	0,100	1	Single phase	240	262 / 288	94,2 / 94,2	2,820	0,160	0,110
1	Single phase	230	240 / 264	94,2 / 94,2	2,160	0,130	0,100	0,8	Single phase	230	263 / 289	94,2 / 94,2	2,820	0,160	0,110
0,8	Single phase	220	240 / 263	94,2 / 94,2	2,160	0,130	0,100	1	Single phase	230	262 / 288	94,2 / 94,2	2,820	0,160	0,110
1	Single phase	220	240 / 264	94,2 / 94,2	2,160	0,130	0,100	0,8	Single phase	220	263 / 289	94,2 / 94,2	2,820	0,160	0,110
								1	Single phase	220	262 / 288	94,2 / 94,2	2,820	0,160	0,110

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

6 CONTROL PANEL

Engine	DEEPSEA 7320	OPTIONAL
Engine Speed	•	•
Low oil pressure protection	•	•
Oil pressure reading [c]	0	0
High temperature engine protection	•	•
Engine temperature reading [c]	0	0
Engine battery voltage	•	•
Intensity of the engine battery [d]	0	0
Fuel Consumption [e]	•	•
Low level of radiator water [f]	0	0
Engine maintenance scheduled	•	•
Communication	DEEPSEA 7320	OPTIONAL
USB female type B plug (Max. 6m) [g]	•	•
USB female type A plug (n)	-	0
RS232 port (Max. 15m) (n)	•	•
RS485 port (Max. 1,2Km) [h]	•	•
Ethernet port RJ45 [i]	0	0
GSM and/or GPS [j]	0	0
ModBus RTU protocol [h]	•	•
ModBus TCP protocol [i]	0	0
SNMP protocol [l]	0	0
CAN port (Max. 40m)	•	•
MSC port (Max. 240m) (m)	-	0
PLC functionality	•	•

Applications	DEEPSEA 7320	OPTIONAL
Automatic or manual starting	•	•
Remote start by NO dry contact	•	•
Automatic by mains failure	•	•
Alternating with timesharing	-	0
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	

Legend

•	Available
o	Optional
-	Not available
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 the addition of the IL-NT-S-USB module
[h]	Requires the addition of the IL-NT-RS232-485 module
[i]	DeepSea: Requires the addition of the DSE891 module/ ComAp: Requires the addition of the IB-LITE module
[j]	DeepSea: Requires the addition of the DSE890 module/ ComAp: Requires the addition of the IL-NT-GPRS module
[l]	DeepSea: Requires the addition of the DSE892 module/ ComAp: Requires the addition of the IB-LITE module

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.

Distribuidor