

INDUSTRIAL RANGE

1 MAIN FEATURES

T Triphasic
 Diesel fuel
 Perkins / 2806A-E18TAG3
 Grupel / 354GB600
 / 7320

Hz 50Hz
 1500 r.p.m.
V 400V
cos φ 0,8

Standby power (STP)	660 kVA	528 kW
Prime Power (PRP)	600 kVA	480 kW
Power Continuous (COP)	- kVA	- kW

Hz 60Hz
 1800 r.p.m.
V 480V
cos φ 0,8

Standby power (STP)	773 kVA	619 kW
Prime Power (PRP)	702 kVA	562 kW
Power Continuous (COP)	- kVA	- kW

OPEN SKID

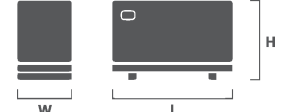
Length (L)	4500 mm
Height (H)	2240 mm
Width (W)	1750 mm
Weight	4756 kg
Daily tank	1000 L



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

SOUNDPROOF

Length (L)	4500 mm
Height (H)	2240 mm
Width (W)	1750 mm
Weight	5829 kg
Daily tank	1000 L



	50Hz	60Hz
Acoustic pressure level @ 1m	82 dB(A)	85 dB(A)
Acoustic pressure level @ 7m	69 dB(A)	72 dB(A)

AVAILABLE VOLTAGES - 50Hz

FP (cos φ)	Phase	Voltage	COP (kVA/kW)	PRP (kVA/kW)	STP (kVA/kW)	Circuit breaker (A)
0,8	Three-phase	440	- / -	563 / 450	619 / 495	800
0,8	Three-phase	415	- / -	600 / 480	660 / 528	1000
0,8	Three-phase	400	- / -	600 / 480	660 / 528	1000
0,8	Three-phase	380	- / -	600 / 480	660 / 528	1000
0,8	Three-phase	240	- / -	600 / 480	660 / 528	1600
0,8	Three-phase	230	- / -	600 / 480	660 / 528	1600
0,8	Three-phase	220	- / -	600 / 480	660 / 528	1600

AVAILABLE VOLTAGES - 60Hz

FP (cos φ)	Phase	Voltage	COP (kVA/kW)	PRP (kVA/kW)	STP (kVA/kW)	Circuit breaker (A)
0,8	Three-phase	480	- / -	702 / 562	773 / 619	1000
0,8	Three-phase	460	- / -	700 / 560	771 / 617	1000
0,8	Three-phase	440	- / -	699 / 559	769 / 615	1000
0,8	Three-phase	416	- / -	697 / 558	768 / 614	1000
0,8	Three-phase	240	- / -	702 / 562	773 / 619	2000
0,8	Three-phase	208	- / -	697 / 558	768 / 614	2000


2 ROOM INSTALLATION

EXHAUST SYSTEM	50 Hz			60 Hz		
	COP	PRP	STP	COP	PRP	STP
Exhaust gas temperature (°C)	-	430	430	-	430	430
Exhaust gas flow (m³/min)	-	180	180	-	190	190
Evacuated Heat (kW)	-	615	675	-	648	689
Maximum back pressure (kPa)	6					
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)	-	64	71	-	65	72
Cooling airflow (m³/min)	870			1140		
Maximum load losses (Pa)	300					
RADIATION	50 Hz			60 Hz		
	COP	PRP	STP	COP	PRP	STP
Engine (kW)	62	62	79	72	72	80
Alternator (kW)	20,4	20,4	27,5	29,4	29,4	32,3

3 ENGINE SPECIFICATIONS


GENERAL SPECIFICATIONS	50 Hz	60 Hz
Model	2806A-E18TAG3	
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	Direct	
No. and Cylinder arrangement	6 In-Line	
Displacement (L)	22,92	
Cylinder bore (mm)	160	
Cylinder stroke (mm)	190	
Compression Ratio	13,6:1	
Regulation	Mechanic	
Rotation speed	1500	1800
Piston Speed (m/s)	9	-
Gross power COP (kWm)	-	-
Gross power PRP (kWm)	658	682
Gross power STP (kWm)	721	746
Fan power (kWm)	9	15
Net Power COP (kWm)	-	-
Net Power PRP (kWm)	522	592
Net Power STP (kWm)	565	652
BMEP COP (kPa)	-	-
BMEP PRP (kPa)	2295	197
BMEP STP (kPa)	2516	2163



CONSUMPTION		50Hz		60Hz	
Fuel consumption	LOAD	lt/h	g/kWh	lt/h	g/kWh
STP	100%	169	202	196	228
	75%	155	202	176	224
	50%	80	208	8	225
PRP	100%	-	-	-	-
	75%	-	-	-	-
	50%	-	-	-	-
COP	100%	-	-	-	-
	75%	-	-	-	-
	50%	-	-	-	-
Oil consumption	< 0,25% of fuel consumption				
REFERENCE CONDITIONS					
Temperature (°C)	25				
Atmospheric pressure (kPa)	100				
CAPACITY					
Coolant (L)	120				
Oil (L)	113,4				
STARTING SYSTEM					
Voltage (V)	28				
Power (kW)	7,5				
Battery (Ah)	225				

4 ALTERNATOR SPECIFICATIONS

GENERAL SPECIFICATIONS	
Model	354GB600
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	6
Excitation (standard / option)	Self-excited / PMG
AVR Model (standard / option)	KR440/MX341B
Voltage Regulation (standard / option)	± 1,0%/ ± 0,5%



INDUSTRIAL RANGE

RATED POWER - 50Hz								RATED POWER - 60Hz									
FP (cos Ø)	Phase	Voltage (V)	Power		Efficiency			FP (cos Ø)	Phase	Voltage (V)	Power		Efficiency				
			PRP/STP (kVA)	PRP/STP (kVA)	PRP/STP (%)	Xd	X'd				X''d	PRP/STP (kVA)	PRP/STP (kVA)	PRP/STP (%)	Xd	X'd	X''d
0,8	Three-phase	440	563 / 619	563 / 619	95,1 / 95,1	2,778	0,148	0,108	0,8	Three-phase	480	720 / 792	720 / 792	94,9 / 94,9	3,215	0,155	0,105
0,8	Three-phase	415	600 / 660	600 / 660	94,9 / 94,9	2,778	0,148	0,108	0,8	Three-phase	460	720 / 792	720 / 792	94,6 / 94,6	3,215	0,155	0,105
0,8	Three-phase	400	600 / 660	600 / 660	95,8 / 94,8	2,778	0,148	0,108	0,8	Three-phase	440	720 / 792	720 / 792	94,4 / 94,4	3,215	0,155	0,105
0,8	Three-phase	380	600 / 660	600 / 660	94,5 / 94,5	2,778	0,148	0,108	0,8	Three-phase	416	720 / 792	720 / 792	94,2 / 94,2	3,215	0,155	0,105
0,8	Three-phase	240	600 / 660	600 / 660	94,9 / 94,9	2,778	0,148	0,108	0,8	Three-phase	240	720 / 792	720 / 792	94,9 / 94,9	3,215	0,155	0,105
0,8	Three-phase	230	600 / 660	600 / 660	94,8 / 94,8	2,778	0,148	0,108	0,8	Three-phase	208	720 / 792	720 / 792	94,2 / 94,2	3,220	0,160	0,110
0,8	Three-phase	220	600 / 660	600 / 660	94,5 / 94,5	2,778	0,148	0,108									

5 CONTROL PANEL



GENSET	DEEPSEA 7320	OPTIONAL
Voltage (Ph-Ph / Ph-N)	• / •	• / •
Current intensity	•	•
Frequency	•	•
RMS values	•	•
Generator phase sequence	•	•
Generator earth current [a]	o	o
No. of registers events	250	250
Real time clock	•	•
PIN protection	•	•
kWh, kVAR, kVAh, kVAh, cos Ø	•	•
Synchroscope (m)	-	o
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]	-	o
Frequency	•	•
kVA, kW, cos Ø (a)	-	o
Inversion control between main-group	•	•
Protections and Alarms	DEEPSEA 7320	OPTIONAL
High / low battery voltage	A	o
Failure in Battery Charge Alternator	A	o
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	o

6 CONTROL PANEL

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

Applications	DEEPSEA 7320	OPTIONAL
Automatic or manual starting	•	•
Remote start by NO dry contact	•	•
Automatic by mains failure	•	•
Alternating with timesharing	-	o
Multi-generators synchronization and load sharing (Max. 32 generators) (m)	-	o
Generator-Main in synchronism and load sharing (1 generator and 1 main) (m)	-	o
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