



INDUSTRIAL RANGE

1 MAIN FEATURES

T Triphasic	Diesel fuel	Grupel / 6GD142TID52	Grupel / 314GB300	/ 4520
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Hz 50Hz	1500 r.p.m.	V 400V	cos φ 0,8
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Standby power (STP)	330 kVA	264 kW
Prime Power (PRP)	300 kVA	240 kW
Power Continuous (COP)	- kVA	- kW

OPEN SKID

Length (L)	4000 mm
Height (H)	2430 mm
Width(W)	1350 mm
Weight	2703 kg
Daily tank	550 L

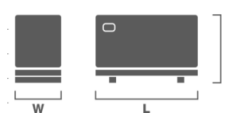


50Hz

Acoustic pressure level @1m	-
Acoustic pressure level @7m	-

SOUNDPROOF

Length (L)	4000 mm
Height (H)	2130 mm
Width (W)	1350 mm
Weight	3488 kg
Daily tank	550 L



50Hz

Acoustic pressure level @1m	79 dB(A)
Acoustic pressure level @7m	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	- / -	285 / 228	314 / 251	400
0,8	Three-phase	415	- / -	300 / 240	330 / 264	630
0,8	Three-phase	400	- / -	300 / 240	330 / 264	630
0,8	Three-phase	380	- / -	300 / 240	330 / 264	630
0,8	Three-phase	240	- / -	300 / 240	330 / 264	800
0,8	Three-phase	230	- / -	300 / 240	330 / 264	800
0,8	Three-phase	220	- / -	285 / 228	314 / 251	800
0,8	Single phase	240	- / -	180 / 144	198 / 158	800
1	Single phase	240	- / -	144 / 144	158 / 158	630
0,8	Single phase	230	- / -	180 / 144	198 / 158	800
1	Single phase	230	- / -	144 / 144	158 / 158	630
0,8	Single phase	220	- / -	180 / 144	198 / 158	1000
1	Single phase	220	- / -	144 / 144	158 / 158	800

2 ROOM INSTALLATION

EXHAUST SYSTEM	50 Hz		
	COP	PRP	STP
Exhaust gas temperature (°C)	-	-	600
Exhaust gas flow (m³/min)	-	-	50,3
Evacuated Heat (kW)	-	-	-
Maximum back pressure (kPa)		6	
Exhaust silencer attenuation (dB)		30	
Output Diameter (mm)		114	

VENTILATION SYSTEMS	50 Hz		
	COP	PRP	STP
Combustion air flow (m³/min)	-	-	19,5
Cooling airflow (m³/min)		-	
Maximum load losses (Pa)		-	
RADIATION	50 Hz		
	COP	PRP	STP
Engine (kW)	-	-	-
Alternator (kW) 50	15,3	15,3	19,3

3 ENGINE SPECIFICATIONS

GENERAL SPECIFICATIONS	50 Hz
Model	6GD142TID52
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)	14,16
Cylinder bore (mm)	135
Cylinder stroke (mm)	165
Compression Ratio	15,55:1
Regulation	Electronic
Rotation speed	1500
Piston Speed (m/s)	8,3
Gross power COP (kWm)	-
Gross power PRP (kWm)	330
Gross power STP (kWm)	363
Fan power (kWm)	13
Net Power COP (kWm)	-
Net Power PRP (kWm)	344
Net Power STP (kWm)	379
BMEP COP (kPa)	-
BMEP PRP (kPa)	1864
BMEP STP (kPa)	2051



CONSUMPTION	50 Hz		
Fuel consumption	LOAD	lt/h	g/kWh
STP	100%	90,3	211,4
	100%	81,2	209,2
	75%	59,8	205,4
PRP	50%	41,1	211,7
	100%	-	-
	75%	-	-
COP	50%	-	-
	100%	-	-
Oil consumption		-	
REFERENCE CONDITIONS			
Temperature (°C)		25	
Atmospheric pressure (kPa)		100	
CAPACITY			
Coolant (L)		35,5	
Oil (L)		41	
STARTING SYSTEM			
Voltage (V)		24	
Power (kW)		7.5	
Battery (Ah)		155	

4 ALTERNATOR SPECIFICATIONS

GENERAL SPECIFICATIONS	
Model	314GB300
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

FP (cos Ø)	Phase	Voltage (V)	Power	Efficiency	Xd	X'd	X''d
			PRP/STP (kVA)	PRP/STP (%)			
0,8	Three-phase	440	285 / 314	93,4 / 93,4	2,665	0,175	0,125
0,8	Three-phase	415	300 / 330	93,0 / 93,0	2,665	0,175	0,125
0,8	Three-phase	400	300 / 330	93,6 / 92,7	2,665	0,175	0,125
0,8	Three-phase	380	300 / 330	92,3 / 92,3	2,665	0,175	0,125
0,8	Three-phase	240	300 / 330	93,0 / 93,0	2,665	0,175	0,125
0,8	Three-phase	230	300 / 330	92,7 / 92,7	2,665	0,175	0,125
0,8	Three-phase	220	285 / 314	93,4 / 93,4	2,665	0,175	0,125
0,8	Single phase	240	180 / 198	93,6 / 93,6	2,665	0,175	0,125
1	Single phase	240	180 / 198	93,6 / 93,6	2,665	0,175	0,125
0,8	Single phase	230	180 / 198	93,6 / 93,6	2,665	0,175	0,125
1	Single phase	230	180 / 198	93,6 / 93,6	2,665	0,175	0,125
0,8	Single phase	220	180 / 198	93,6 / 93,6	2,665	0,175	0,125
1	Single phase	220	180 / 198	93,6 / 93,6	2,665	0,175	0,125

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CONTROL PANEL



GENSET	DEEPSEA 4520	OPTIONAL
Voltage (Ph-Ph / Ph-N)	• / •	• / •
Current intensity	•	•
Frequency	•	•
RMS values	•	•
Generator phase sequence	-	0
Generator earth current [a]	-	0
No. of registers events	15	250
Real time clock	•	•
PIN protection	•	•
kWh, kVAh, kVAh, kVAh, cos Ø	•	•
Synchroscope (m)	-	0
Nº of available outputs [b]	2	6
Engine run hours	•	•
Indication of alarms on LCD	•	•
Total no. of LED indicators	3	12
No. of LED alarms	-	4
Sound signalling alarms	•	•
Scheduler	•	•
Fuel Level	•	•

Electrical network	DEEPSEA 4520	OPTIONAL
Voltage (Ph-Ph / Ph-N)	• / •	• / •
Current intensity [a]	-	0
Frequency	•	•
kVA,kW, cos Ø (a)	-	0
Inversion control between main-group	-	0
Protections and Alarms	DEEPSEA 4520	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	-	0
Asymmetry between phases	-	0
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	-	0

6 CONTROL PANEL

Engine	DEEPSEA 4520	OPTIONAL	Applications	DEEPSEA 4520	OPTIONAL
Engine Speed	•	•	Automatic or manual starting	•	•
Low oil pressure protection	•	•	Remote start by NO dry contact	•	•
Oil pressure reading [c]	0	0	Automatic by mains failure	•	•
High temperature engine protection	•	•	Alternating with timesharing	-	0
Engine temperature reading [c]	0	0	Multi-generators synchronization and load sharing (Max. 32 generators) (m)	-	0
Engine battery voltage	•	•	Generator-Main in synchronism and load sharing (1 generator and 1 main) (m)	-	0
Intensity of the engine battery [d]	0	0			
Fuel Consumption [e]	•	•			
Low level of radiator water [f]	0	0			
Engine maintenance scheduled	•	•			
Communication	DEEPSEA 4520	OPTIONAL	Optional expansions	DEEPSEA 4520	OPTIONAL
USB female type B plug (Max. 6m) [g]	•	•	DSE2130 (8 inputs dig.) IG-IOM (8 in/outputs dig. + 4 inputs anal.) G-08 (8 inputs dig.)	-	0
USB female type A plug (n)	-	0	DSE2157 I-RB8 G-06 (8 relay outputs)	-	0
RS232 port (Max. 15m) (n)	-	0	DSE890 IL-NT-GPRS G-GSM (GSM and/or GPS)	•	•
RS485 port (Max. 1,2Km) [h]	-	0	DSE891 IB-LITE G-ETH (ethernet module)	•	•
Ethernet port RJ45 [i]	0	0	DSE892 IB-LITE - (ethernet module according SNMP protocol)	•	•
GSM and/or GPS [j]	0	0	DSE2548 IGL-RA15 - (expansion with 8 additional LEDs)	-	0
ModBus RTU protocol [h]	-	0	DSE2510 / 20 (mirror controller, maximum distance 1km)	-	0
ModBus TCP protocol [i]	-	0			
SNMP protocol [l]	0	0			
CAN port (Max. 40m)	•	•			
MSC port (Max. 240m) (m)	-	0			
PLC functionality	-	0			

Legend			
•	Available	[d]	Needs additional ammeter
o	Optional	[e]	If information provided by the engine ECU
-	Not available	[f]	Required additional sensor
A	Warning Alarm	[g]	Requires the addition of the IL-NT-S-USB module
S	Stop alarm	[h]	Requires the addition of the IL-NT-RS232-485 module
[a]	Need additional CT	[i]	DeepSea: Requires the addition of the DSE891 module/ ComAp: Requires the addition of the IB-LITE module
[b]	No. of outputs available for standard configuration. The outputs do not include relays and additional terminal connections.	[j]	DeepSea: Requires the addition of the DSE890 module/ ComAp: Requires the addition of the IL-NT-GPRS module
[c]	If the information is not provided by the engine-ECU, you need an additional sensor	[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