



Generator Specification

Service	PRP(1)	ESP(2)
Power (KVA)	60	66
Power (KW)	48	53
Rated speed (r.p.m)	1500	
Standard voltage (V)	400/230 V	
Rated at power factor (cos Phi)	0,8	

(1) PRP (Prime Power):

According to ISO8528-1, prime power is the maximum power available during a variable power sequence, which may be run for an unlimited number of hours per year, between stated maintenance intervals. The permissible average power output during at 24 hours period shall not exceed 80% of the prime power. 10% overload available for governing purposes only.

(2) ESP (Standby Power):

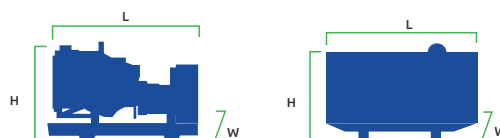
According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. No overload capability is available.

Power Voltage	ESP		PRP		Standby Amps
	KVA	KW	KVA	KW	
415/240	66	53	20	48	91.8
400/230	66	53	60	48	95.3
380/220	66	53	60	48	100.3

Performance Data		
Model	DY66P-S1	
Engine	Perkins	
Engine model	1103A-33TG2	
Speed control type	Mechanical	
Phase	3	
Control sytem	Digital	
Starter motor voltage	12V	
Frequency	50Hz	
Engine speed (RPM)	1500	
Fuel Consumption (L/H)	100% standby power	15.4
	100% prime power	13.9
	75% prime power	10.4
	50% prime power	7.2

Standard reference Conditions

Note: Standard reference condition 25 °C[77 °F] air inlet temp, 1000m(328ft) A.S.L 30% relative humidity. Fuel consumption dat with diesel fuel with specific gravity of 0.85 and conforming to BS 2869: 1998 Class A2



Dimension and Weight		
Dimension	Open	Silent
Length (L)	1920 mm	2270 mm
Width (W)	750 mm	960 mm
Height (H)	1410 mm	1200 mm
Net Weight	913 KG	1280 KG
Fuel Tank (L)	200 L	100L

Engine Specification : 1103A-33TG1

Basic technical data

No. of cylinders	3
Cylinder arrangement	In-line
Cycle	4 stroke
Induction system	Turbocharged
Compression ratio	17.25:1
Bore	105mm
Stroke	270mm
Displacement	3.3L
All ratings certified to within	± 3%
Estimated total weight	420kg

Cooling system

Total coolant capacity -with radiator	10.2L
-without radiator	4.4L
Maximum top tank temp	110°C
Thermostat operation range	82-93°C
Radiator face area	0.276m ²
Rows and material	single row aluminium
Pressure cap setting	107kPa
Fan diameter	457.0mm
Drive ratio	1.25 : 1
Number of blades	7

Fuel system

Injection system	Direct
Fuel injection pump	Rotary
Fuel atomiser	Multi-hole
Nozzel opening pressure	29.0 MPa
Fuel lift pump type	Mechanical
-flow/hour	120-150 l/h
-pressure	30-75 kPa
Maximum suction head: -1500 rev/min	20kPa

Induction system

Clean filter	5kpa
Dirty filter	8kpa
Air filter type	Dry

Lubrication system

Maximum sump capacity	7.8L
Minimum sump capacity	6.2L
Total system	8.3L
Maximum engine operating angles - front up, front down, right side or left side	25°C
Lubricating oil pressure -Relief valve opens	415-470 kPa
-at maximum no load speed	276-414 KPA
Oil consumption at full load as a % of fuel consumption	0.15%

Electrical system Type

Type	Negative ground
Alternator voltage	12 volts
Alternator output	65 amps
Starter motor voltage	12 volts
Starter motor power	3KW

General installation

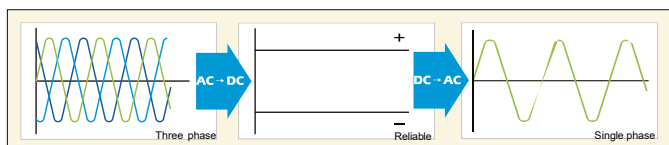
Prime power

Gross engine power	55kW
Brake mean effective pressure	1333kPa
Combustion air flow	3.8m ³ /min
Exhaust gas temperature outlet	557 °C
Energy to coolant	35kW
Energy to exhaust	41kW

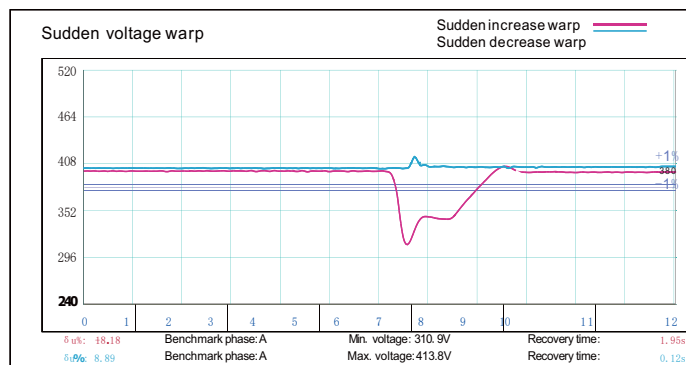
ALTERNATOR SPECIFICATION : LEROY SOMER TAL-A42-H

Alternator

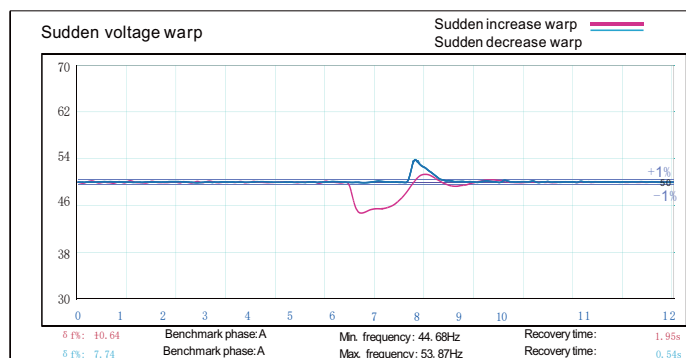
Number of phase	3
Power factor (Cos Phi)	0.8
Poles	4
Winding Connections (standard)	Star-serie
Terminals	12
Insulation type	H class
Winding Pitch	2/3
IP rating	IP23
Excitation system	Self excited
Bearing	Single bearing
Coating	Vacuum impregnation
Voltage regulator	A.V.R
Coupling	Flexible disc



Emergency voltage curve



Emergency frequency curve



OPTIONS

Engine	Alternator	Generator Sets	Fuel System
<ul style="list-style-type: none"> Water Jacket Pre heater Fuel heater 	<ul style="list-style-type: none"> Winding Temp measuring Instrument Alternator Pre heater PMG Anti-damp and anti corrosion treatment Anti-condensation heater Winding and bearing RTD 	<ul style="list-style-type: none"> Tools with the machine Extended range fuel tank Bunded fuel tank 	<ul style="list-style-type: none"> Low fuel level alarm Automatic fuel feeding system Fuel T-valves
Canopy	Lub Oil System	Cooling System	Control Panel
<ul style="list-style-type: none"> Rental type Canopy Trailer 	<ul style="list-style-type: none"> Oil Pre-heater Oil temp sensor 	<ul style="list-style-type: none"> Front heat protection 	<ul style="list-style-type: none"> Remote control panel ATS Synchronizing controller Adjustable earth leakage relay

Control Panel: DEEPSEA 6120MKII

Configuration

- Emergency stop button
- Protection MCB
- Battery charger
- Integrated aviation plug
- ATS connection
- Digital control module

Features

- 3 phase generator set monitoring
- Support of engines equipped with electronic control unit
Comprehensive diagnostic message
- Automatic or manual start/ stop of the gensets
- Push buttons for simple control, lamp test
- Graphic back lit. LCD display
- Parameters adjustable via keyboard or PC
- Mains measurements (50HZ/ 60HZ)
- Generator measurements (50HZ/ 60HZ)
- Comprehensive shutdown or warning on fault condition
- 3 phase Generator protections
 - Over/under voltage
 - Over-/under frequency
 - Current voltage asymmetry
 - Over current/ overload
- 3 phase AMF function
 - Over-/under frequency
 - Over-/under voltage
 - Voltage asymmetry
- Configurable analog inputs
- Battery voltage, engine speed (pick-up) measureme
- Configurable programmable binary inputs and outputs
- Warm-up and cooling functions
- Generator C.B. and Mains C.B. control with feedback and re-
turn timer
- RS232 interface
- Modem communication support
- Hours counter
- Sealed to Ip65
- Event log

Benefits

- Less wiring and components
- Integrated solution
- Less engineering and programming
- User friendly set up and button layout
- Module can be configured to suit individual applications
- PC software for simplified configuration
- Wide range of communication capabilities

Operation conditions

- Operation temp: -20 °C to + 70 °C
- Storage temp: -30 °C to + 80 °C
- Operating humidity: 95% w/o condensation
- Vibration: 5-25Hz ,+/- 1.6 mm
5-100 Hz, a = 4g
- Shocks: a = 500m/s²

Options

- Ethernet interface (Remote monitoring and control)
- GSM modem/wireless internet (Remote monitoring and control)
- RS232-RS485 Dual port interface
- Synchronizing control panel
- Distribution board with sockets kit and power busbar
- Battery trickle charge ammeter
- Earth leakage protection
- Earth fault protection
- Low fuel level alarm
- Low fuel level shutdown
- High fuel level alarm
- Fuel transfer system control
- Low coolant level shutdown
- High lube oil temp shutdown
- Overload via alarm switch on breaker
- Engine coolant heater controls
- Control panel heater
- Speed adjust switch
- Oil temp displayed on LCD screen
- Additional 8 inputs and outputs