









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	ES	P	P	RP	Standy
Voltage	KVA	KW	KVA	KW	Amps
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	
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	
	100% standby power	15.4	
Fuel	100% prime power	13.9	
Consumption (L/H)	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 Weigh	t	
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		
Туре	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	3.8m³/min
Exhaust gas temperature outlet	557 °C
Energy to coolant	35kW
Energy to exhaust	41kW







ALTERNATOR SPECIFICATION : LEROY SOMER TAL-A42H

The best of performance

The Leroy-Somer™ TAL 042 alternator has been designed to offer you the best power generation performances. With its meticulous design and optimized architecture, the TAL 042 strikes the perfect balance between compactness, reliability, performance and longevity. Whatever your application, the Leroy-Somer™ TAL 042 alternator will meet

Whatever your application, the Leroy-Somer™ TAL 042 alternator will m your needs and will adapt to all situations.

Standards

The Leroy-Somer™ TAL 042 alternator meets all key international standards and regulations, including IEC 60034, NEMA MG 1.32-33, ISO 8528-3, CSA C22.2 n°100-14 and UL 1446 (UL 1004 on request). Also compliant with IEC 61000-6-2, IEC 61000-6-3, IEC 61000-6-4, VDE 0875G, VDE 0875N and EN 55011, group 1 class A for European zone. The Leroy-Somer™ TAL 042 alternator can be integrated in EC marked generator set, and bears EC, UKCA and CMIM markings. It is designed, manufactured and marketed in an ISO 9001 and ISO 14001 quality assurance environment.

Electrical characteristics and performances

- Class H insulation
- Shunt excitation
- Low voltage winding:
 - Three-phase 50 Hz: 220V 240V and 380V 415V (440V) 60 Hz: 208V - 240V and 380V - 480V
 - Single-phase 50 Hz: 115V 230V 60 Hz: 120V - 240V
- 4-terminal plates in 6-wire version
- Optimized performance





Protection system and options

- Degree of protection: IP 23
- Complete winding protection for non-harsh environment with relative humidity ≤ 95%
- Options:
 - Three-phase 12-wire with 8-terminal plates
 - AREP+ or PMG excitation
 - ULc/us
 - Customized painting (unpainted machine as standard)
 - Space heater
 - Flying leads
 - Dedicated single-phase
 - Winding 8 optimized for three-phase 380V / 416V 60Hz
 - Reinforced winding protection for harsh environments and relative humidity greater than 95% (system 2 4):
 derating according to the following table

	50 Hz			60 Hz
Type	380V	400V	415V	All voltages
TAL 042	0.97	1 except 0.97 for TAL 042 G	1 except 0.97 for TAL 042 G	1 except 0.97 for TAL 042 G

Mechanical construction

- . Compact and rugged assembly to withstand engine vibrations
- Steel frame
- Aluminum flanges and shields
- Single-bearing design compatible with most diesel engines
- · Greased for life bearings
- Direction of rotation: clockwise and counterclockwise without derating

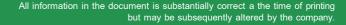
Terminal box design

Easy access to AVR and terminals











ALTERNATOR SPECIFICATION: LEROY SOMER TAL-A42H

General characteristics

Insulation class	Н	Excitation system 6-wire	SHUNT	AREP+ / PMG	
Winding pitch	2/3 (wind.6S - 6-wire / wind.6 - 12-wire)	AVR type	R120	R180	
Number of wires	6 (12 option)	Excitation system 12-wire (option)	SHUNT	AREP+ / PMG	
Protection	IP 23	AVR type	R120	R180	
Altitude	≤ 1000 m	Voltage regulation (**)	±1%	± 0.5 %	
Overspeed	2250 R.P.M.	Total Harmonic Distortion THD (***) in no	-load	< 2 %	
Air flow 50 Hz	0.10 m³/s	Total Harmonic Distortion THD (***) in line	ear load	< 5 %	
Air flow 60 Hz	0.13 m³/s	Waveform: NEMA = TIF (***)		< 50	
AREP+/PMG Short-c	ircuit current = 2.7 In: 5 seconds (*)	Waveform: I.E.C. = FHT (***)	< 2%		

^(*) D350: 10 seconds (**) Steady state (***) Total harmonic distortion between phases, no-load or on-load (non-distorting)

Ratings 50 Hz - 1500 R.P.M.

3																					
kVA / kW -	P.F.	= 0.8																			
Duty / T° C		Continuous / 40 °C				Continuous / 40 °C				Stand-by / 40 °C					Stand-by / 27 °C						
Class / T° K			H / 125° K			F / 105° K				H / 150° K					H / 163° K						
Phase 3 ph. 1 ph.			1 ph.	3 ph. 1 ph.				3 ph. 1 ph.					3 ph. 1 ph				1 ph.				
Y		380V	400V	415V	440V		380V	400V	415V	440V		380V	400V	415V	440V		380V	400V	415V	440V	
Δ		220V	230V	240V		230V	220V	230V	240V		230V	220V	230V	240V		230V	220V	230V	240V		230V
YY (*)			200V		220V			200V		220V			200V		220V			200V		220V	
△△ (*)						230V					230V					230V					230V
TAL 042 A	kVA	25	25	25	24.5	15	23	23	23	22.5	13.5	26.5	26.5	26.5	26	16	27.5	27.5	27.5	27	16.5
	kW	20	20	20	19.5	12	18.5	18.5	18.5	18	11	21	21	21	21	13	22	22	22	21.5	13
TAL 042 B	kVA	27	27	27	26	16	24.5	24.5	24.5	23.5	14.5	28.5	28.5	28.5	27.5	17	30	30	30	28.5	17.5
	kW	21.5	21.5	21.5	21	13	19.5	19.5	19.5	19	11.5	23	23	23	22	13.5	24	24	24	23	14
TAL 042 C	kVA	31	32	32	30	19	28	29	29	27.5	17.5	33	34	34	32	20	34	35	35	33	21
	kW	25	25.5	25.5	24	15	22.5	23	23	22	14	26.5	27	27	25.5	16	27	28	28	26.5	17
TAL 042 D	kVA	35	35	35	30.5	22	32	32	32	28	20	37	37	37	32.5	23.5	38.5	38.5	38.5	33.5	24
	kW	28	28	28	24.5	17.5	25.5	25.5	25.5	22.5	16	29.5	29.5	29.5	26	19	31	31	31	27	19
TAL 042 E	kVA	39.5	40	40	35	25	36	36.5	36.5	32	23	42	42.5	42.5	37	26.5	43.5	45	45	38.5	27.5
	kW	31.5	32	32	28	20	29	29	29	25.5	18.5	33.5	34	34	29.5	21	35	36	36	31	22
TAL 042 F	kVA	43	45	45	39	27	39	41	41	35.5	24.5	45.5	47.5	47.5	41.5	28.5	47.5	50	50	43	29.5
	kW	34.5	36	36	31	21.5	31	33	33	28.5	19.5	36.5	38	38	33	23	38	40	40	34.5	23.5
TAL 042 G	kVA	47.5	50	50	43	30	43	45.5	45.5	39	27.5	50	53	53	45.5	32	52	55	55	47.5	33
	kW	38	40	40	34.5	24	34.5	36.5	36.5	31	22	40	42	42	36.5	25.5	42	44	44	38	26.5
TAL 042 H	kVA	58	60	60	52	36	53	55	55	47	33	61	64	64	55	38	64	66	66	57	39.5
	kW	46	48	48	42	29	42	44	44	37.5	26.5	49	51	51	44	30.5	51	53	53	46	31.5
TAL 042 J	kVA	58	63	63	52	36	53	58	58	47	33	61	67	67	55	38	64	70	70	57	39.5
	kW	46	50	50	42	29	42	46	46	37.5	26.5	49	54	54	44	30.5	51	56	56	46	31.5







Control Panel: DEEPSEA 7320MKII

DSE7310/20 MKII

AUTO START & AUTO MAINS FAILURE CONTROL MODULES





KEY FEATURES

- Configurable power-up mode
- MPU fail delay
- Enhanced graphical user interface
- Drag & drop advanced PLC editor
- MSC ID within PLC GenComm
- 4-Line back-lit LCD text display
- Multiple Display Languages
- Five key menu navigation LCD alarm indication
- Heated display option available Customisable power-up text and
- DSENet expansion compatibility
- Data logging facility Internal PLC editor
- Protections disable feature Fully configurable via PC using
- USB, RS232 & RS485 communication
- Front panel configuration with PIN protection
- Power save mode
- 3 phase generator sensing and protection 3 phase mains (utility) sensing and
- protection (DSE7320 MKII only) Automatic load transfer control
- (DSE7320 MKII only) Generator current and power
- monitoring (kW, kvar, kVA, pf) Mains current and power monitoring (kW, kvar, kVA, pf)
- (DSE7320 MKII only) kW and kvar overload and reverse power alarms
- Over current protection

- Unbalanced load protection
- Independent earth fault protection
- Breaker control via fascia buttons
- Fuel and start outputs configurable when using CAN
- 6 configurable DC outputs
- 2 configurable volt-free relay outputs
- 6 configurable analogue/digital inputs
- Support for 0 V to 10 V & 4 mA to 20 mA sensors
- 8 configurable digital inputs
- Configurable 5 stage dummy load and load shedding outputs
- CAN, MPU and alternator frequency speed sensing in one variant
- Real time clock
- · Manual and automatic fuel pump control
- Engine pre-heat and post-heat functions
- Engine run-time scheduler
- Engine idle control for starting & stopping
- Fuel usage monitor and low fuel level alarms
- Simultaneous use of RS232 and RS485 communication ports
- True dual mutual standby using RS232 or RS485 for accurate engine hours balancing.
- MODBUS RTU support with configurable MODBUS pages.
- Advanced SMS messaging (additional external modem

- Start & stop capability via SMS messaging
- · 3 configurable maintenance alarms
- Compatible with a wide range of CAN engines, including tier 4 engine support
- Uses DSE Configuration Suite PC Software for simplified
- configuration Licence-free PC software
- IP65 rating (with supplied gasket) offers increased resistance to water ingress
- Modules can be integrated into building management systems (BMS) using MODBUS RTU

KEY BENEFITS

- Automatically transfers between mains (utility) and generator (DSE7320 MKII only) for convenience.
- Hours counter provides accurate information for monitoring and maintenance periods
- User-friendly set-up and button layout for ease of use
- Multiple parameters are monitored & displayed simultaneously for full
- . The module can be configured to suit a wide range of applications for
- user flexibility
 PLC editor allows user configurable functions to meet user specific application requirements.

SPECIFICATIONS

CONTINUOUS VOLTAGE RATING

8 V to 35 V Continuous 5 V for upto 1 minute

CRANKING DROPOUTS
Able to survive 0 V for 100 mS, providing supply was at least 10 V before dropout and supply recovers to 5 V. This is schieved without the need for internal batteries.
LEDs and backlight will not be maintained during cranking.

MAXIMUM OPERATING CURRENT 510 mA at 12 V, 240 mA at 24 V

MAXIMUM STANDBY CURRENT 330 mA at 12 V, 160 mA at 24 V

CHARGE FAIL/EXCITATION RANGE

ERATOR & MAINS (UTILITY)

VOLTAGE RANGE

15 V to 415 V AC (Ph to N) 26 V to 719 V AC (Ph to Ph)

FREQUENCY RANGE 3.5 Hz to 75 Hz

VOLTAGE RANGE +/- 0.5 V to 70 V

FREQUENCY RANGE 10,000 Hz (max

DIGITAL INPUTS A TO H

ANALOGUE INPUTS A & F

ANALOGUE INPUTS A & F
Configurable as:
Negative switching digital input
0 V to 10 V sensor
4 mA to 20 mA sensor
Resistive sensor

ANALOGUE INPUTS B, C, D & E

Configurable as: Negative switching digital input Resistive sensor

OUTPUT A & B (FUEL & START)
15 A DC at supply voltage

AUXILIARY OUTPUTS E, F, G, H, I & J 2 A DC at supply voltage

OVERALL

PANEL CUT-OUT

220 mm x 160 mm 8.7" x 6.6"

MAXIMUM PANEL THICKNESS

STORAGE TEMPERATURE RANGE -40°C to +85°C -40 °F to +185 °F

ERATURE RANGE

-30°C to +70°C -22 °F to +158 °F

HEATED DISPLAY VARIANT -40 °C to +70 °C



Dynamis Power Solutions by NETIS

NETIS Group



www.dynamispower.com

All information in the document is substantially correct a the time of printing but may be subsequently altered by the company.

Distributed by

All rights reserved - Dynamis by NETIS - 2025

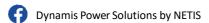


Monitoring 3G/4G: DEEPSEA 890MKII (OPTIONAL)



- DSE890 MKII 4G gateway used with DSE controllers for remote monitoring and communication via DSEWebNet® or third-party MQTT brokers.
- Communicates with up to five connected DSE controllers to monitor instruments and operating states.
- Internally records data changes and transmits them to DSEWebNet® or to an MQTT broker (Amazon Web Services, Google, IBM, etc.).
- $\mbox{DSEWebNet}^{\circledast}$ software is accessible via a web browser or a dedicated app.
- Supports multiple operations: equipment monitoring, alarm clearing, equipment start/stop, and fuel level monitoring.
- The IoT functionality of the DSE890 MKII supports MQTT V 3.1.1 (ISO/IEC 20922:2016).
- Connection to a third-party server running an MQTT broker is possible, while maintaining a connection to DSEWebNet®.
- For more information on DSEWebNet® software, refer to datasheet 055-192.
- The DSE890 MKII also supports 2G and 3G connectivity.







www.dynamispower.com

N --- MONITORING

Discover Dynamis Webnet

A remote generator management and control solution.

DYNAMIS WEBNET allows you to receive detailed reports including recommendations for corrective and preventive maintenance.

It also enables you to connect and access real-time data across a range of generator operating parameters.

The solution offers you real-time control of your generator.



	Distributed by)
·		



Extended tanks-200-500-600-1000





33kVA 1000l antitheft



55kVA 600I



info.dynamis@netisgroup.net

Follow us @facebook.com/NETISGroup

Follow us @linkedin.com/company/netis-group

All information in the document is substantially correct a the time of printing but may be subsequently altered by the company.

Distributed by

All rights reserved – Dynamis by NETIS - 2021



