









Generator Specification

Service	PRP(1)	ESP(2)	
Power (KVA)	180	200	
Power (KW)	155 160		
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):

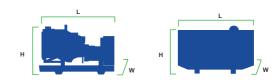
According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures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

Power	ESP		PRP		Standy	
Voltage	KVA	KW	KVA	KW	Amps	
415/240	200	160	180	155	278	
400/230	200	160	180	155	288	
380/220	200	160	180	155	303	

Performance Data						
Model		DY200P				
Engine	gine		ine		gine	
Engine model		1106A-70TAG4				
Speed control type		Electronic				
Phase	3					
Control sytem	Digital					
Starter motor volta	12V					
Frequency	50Hz					
Engine speed (RPN	Engine speed (RPM)					
	100% standby power	50.5				
Fuel	100% prime power	46.4				
Consumption (L/H)	75% prime power	35.3				
	50% prime power	22.7				

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	79 dB(A)@1m 65 dB(A)@7m	Silent
Length (L)		3600 mm
Width (W)		1110 mm
Height (H)		2170 mm
Net Weight		2399 KG
Fuel Tank (L)		300L



Engine Specification: 1106A-70TAG4

Basic technical data	
Engine brand	Perkins
No. of cylinders	3-L
Engine ref.	1106A-70TAG3
Engine type	4 stroke diesel
Governor type	mech
Injection	Direct
Bore*Stroke	103*135mm
Aspiration	Turbocharged & Air charge cooled
Displacement	7.0L
Cooling system	Water-cooled

Cooling system						
Total coolant capacity -with radiator	20.5L					
Maximum top tank temp	110°C					
Thermostat operation range	82-93°C					
Radiator face area	0.276 m ²					
Rows and material	38 aluminium					
Pressure cap setting	100kPa					
Fan diameter	559 mm					
Drive ratio	1:1					
Number of blades	10					

Fuel system	
Injection system	Direct
Fuel injection pump	Rotary
Fuel atomiser	Multi-hole
Nozzel opening pressure	29.0 MPa
Fuel lift pump type	Electronic
-flow/hour	120-150 l/h
-pressure	30-75 kPa
Maximum suction head: -1500 rev/min	10 kPa

Induction system	
Clean filter	3.0kpa
Dirty filter	6.4kpa
Air filter type	Dry

Lubrication system	
Lubre oil consumption with full load	0.5%-1% of fuel consumption
Compression Ratio	16:1
Total coolant capacity	20.5L
Engine oil capacity	16.1L
Air Filter Type	e Dry
oil flow at rated speed	10.9 litres/min.

Electrical system Type				
Туре	Negative ground			
Alternator voltage	12 volts			
Alternator output	TBD			
Starter motor voltage	12 volts			
Starter motor power	TBD			







ALTERNATOR SPECIFICATION : LEROY SOMER TAL-A44L

The best of performance

The Leroy-Somer™ TAL 044 alternator has been designed to offer you the best power generation performances. With its meticulous design and optimized architecture, the TAL 044 strikes the perfect balance between compactness, reliability, performance and longevity.

Whatever your application, the Leroy-Somer™ TAL 044 alternator will meet your needs and will adapt to all situations.

Standards

The Leroy-Somer™ TAL 044 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 044 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: 230V
 - 60 Hz: 240V
- · 4-terminal plates in 6-wire version
- Optimized performance













	Excitation system			Regulation options			
	AVR	SHUNT	AREP+ (option)	PMG (option)	UL _{C/US}	Remote voltage potentiometer	C.T. Current transformer for paralleling
	R120	Standard					
Three-phase	R150	Option				√	
6-wire	R180		Standard	Standard		4	√
	D350	Option	Option	Option	V	A	V*
	R120	Standard	25.1111			100	
Three-phase	R250	Option			√ V	V	
12-wire	R180		Standard	Standard		1	V
T	D350	Option	Option	Option	√	1	√*
e:II	R121	Standard		2		V	
Single-phase	R251	Option			√	1	

^{*:} only with AREP+ or PMG

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
 - Droop kit for alternator paralleling
 - Dedicated single-phase
 - Stator sensors
 - Winding 8 optimized for three-phase 380V / 416V 60Hz
 - Reinforced winding protection for harsh environments and relative humidity greater than 95% (system 2 4): for TAL 044 K apply a derating coefficient of 0.97

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-A44L

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	0.29 m³/s	Total Harmonic Distortion THD (***) in linear lo	oad	< 5 %
Air flow 60 Hz	0.34 m³/s	Waveform: NEMA = TIF (***)		< 50
AREP+/PMG Short-o	circuit 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.

kVA / kW -	P.F.	8.0 =																		Υ	
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.	3 ph. 1 ph			1 ph.	3 ph. 1			1 ph.		3 ph.			1 ph.			
Υ		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 044 A	kVA	70	70	70	63	42	64	64	64	57	38	74	74	74	67	45	77	77	77	69	46
	kW	56	56	56	50	33.5	51	51	51	46	30.5	59	59	59	54	36	62	62	62	55	37
TAL 044 B	kVA	80	80	80	72	48	73	73	73	66	44	85	85	85	76	51	88	88	88	79	53
	kW	64	64	64	58	38.5	58	58	58	53	35	68	68	68	61	41	70	70	70	63	42
TAL 044 C	kVA	90	90	90	81	54	82	82	82	74	49	95	95	95	86	57	100	100	100	89	59
	kW	72	72	72	65	43	66	66	66	59	39	76	76	76	69	46	80	80	80	71	47
TAL 044 D	kVA	100	100	100	90	60	91	91	91	82	55	106	106	106	95	64	110	110	110	99	66
TAL 044 E	<i>kW</i> k∨A	80	80	80 125	72	48 67	73 114	73	73	66	44	85	85	85 133	76	51 71	88	88	88	79	53 74
TAL 044 E	kW	125 100	125 100	100	113 90	54	91	114 91	114 91	103 82	61 49	133 106	133 106	106	120 96	57	138 110	138 110	138 110	124 99	59
TAL 044 H	kVA	135	135	135	122	73	123	123	123	111	66	143	143	143	129	77	150	150	150	134	80
IAL 044 II	kW	108	108	108	98	58	98	98	98	89	53	114	114	114	103	62	120	120	120	107	64
TAL 044 J	kVA	150	150	150	135	80	137	137	137	123	73	159	159	159	143	85	165	165	165	149	88
	kW	120	120	120	108	64	110	110	110	98	58	127	127	127	114	68	132	132	132	119	70
TAL 044 K	kVA	165	165	165	138	88	150	150	150	126	80	175	175	175	150	93	182	182	182	157	97
	kW	132	132	132	110	70	120	120	120	101	64	140	140	140	120	74	146	146	146	126	78
TAL 044 L	kVA	180	180	180	171	90	164	164	164	156	82	191	191	191	181	95	200	200	200	188	99
	kW	144	144	144	137	72	131	131	131	125	66	153	153	153	145	76	160	160	160	150	79
TAL 044 M	kVA	192	200	200	192	100	175	182	182	175	91	204	212	212	204	106	211	220	220	211	110
	kW	154	160	160	154	80	140	146	146	140	73	163	170	170	163	85	169	176	176	169	88







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





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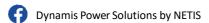


Monitoring 3G/4G: DEEPSEA 890MKII (OPTIONAL)



- 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.







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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.



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Extended tanks-200-500-600-1000





33kVA 1000l antitheft



55kVA 600I



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