

Model DY165P-S12

Power by PERKINS



Generator Specification

Model	DY165P-S12	ESP(2)
Rated prime power	kva	150
Rated standard power	kva	165
Rated voltage line to line	V	400/230
Rated current	А	217

(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.

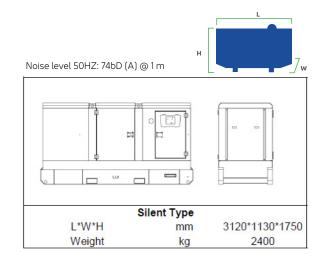
Engine-PERKINS		
Model		1106A-70TAG2
Air intake system		Turbocharged
Fuel injection system		Direct Injection
No. cylinders		6
Displacement	Liquid	7.01
Bore*Stroke	mm	105*135
Compression ratio		18.2
Rated speed	r/min	1500
Rated net power (with fan)	Kw	136
Governor Type		Mechanical
Start Motor	V	24

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



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Engine Specification : 1106A-70TAG2 (165kVA)

Exhaust System		
Exhaust gas flow	m3/min	23.78
Exhaust gas temp	°C	484
Max back pressure	kPa	15

Air intake System		
Max intake restriction	kPa	5
Air filter type		Paper element
Air flow	m³/min	10.2

Fuel System		
100% load (prime power)	L/h	33.4
75% load (prime power)	L/h	24.7
50% load (prime power)	L/h	16.4
Fuel tank capacity	L	350

Lubrication System		
Total system oil capacity	L	18
Oil temp	°C	125
Oil pressure	kPa	520

Cooling System		
Total coolant capacity	L	21
Thermostat	°C	82-93
Max top tank temperature	°C	110



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Standard Features

Engine(Perkins) Radiator 50°C max, fahs are driven by be 24V charge alternator Alternator: single bearing alternator IP23, insulation class H/H Standard auto control system One set of air filter, fuel filter, oil filter Main line circuit breaker/MCCB Base fuel tank Two 12V batteries, rac and cable Exhaust system(Ripple flex exhaust pipe, exhaust siphon, flange, muffler User manual

Alternator		
Model	Learoy Somer	TAL-A47-J
Phase		3
Voltage	V	400/230
Wirning		3 Phase 4 Wire, Y type
Bearning		1
Power factor		0.8
Frequency	Hz	50
Prime power	kVA	150
Exciter Type		Brushless, self-excitation
Voltage regulation	%	+-0.5
Protection Grade		IP23
Insultation grade		Н/Н
Altitude	m	<=1000

Controller-DEEPSEA	
Model	DSE6120MKII
Protective functions : • Low oil pressureHigh water temperature • High/low voltage • High Engine Temperature and Over- speed. • Voltage regulator frequency regulator • Emergency stop • Start failure	

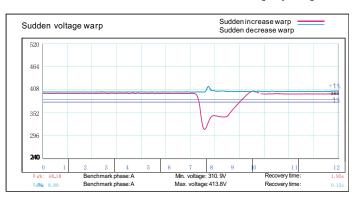


ALTERNATOR SPECIFICATION : LEROY SOMER TAL-A44-J

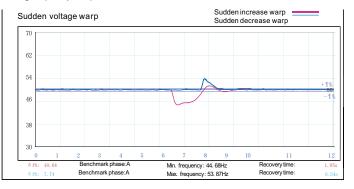
Emergency voltage curve

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
Couping	Flexible disc





Emergency frequency curve



Engine	Alternator	Generator Sets	Fuel System
• Water Jacket Pre heater • Fuel heater	 Winding Temp measuring Instrument Alternator Pre heater PMG Anti-damp and anti corrosion treatment Anti-condensation heater Winding and bearing RTD 	 Tools with the machine Extended range fuel tank Bunded fuel tank 	 Low fuel level alarm Automatic fuel feed- ing system Fuel T-valves
Canopy	Lub Oil System	Cooling System	Control Panel
• Rental type Canopy • Trailer	• Oil Pre-heater • Oil temp sensor	Front heat protection	 Remote control panel ATS Synchronizing con- troller Adjustable earth leakage relay

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Control Panel: DEEPSEA 6120MKII

DSE6110/20 MKIII AUTO START & AUTO MAINS (UTILITY)

FAILURE CONTROL MODULES



DSE6110 MKIII

KEY FEATURES

- 4-line back-lit LCD text display
- Multiple display languages Five-key menu navigation
- LCD alarm indication
- Customisable power-up text and screen images.
- DSENet® expansion compatibility Data logging facility
- Internal PLC editor
- Protections disable feature · Fully configurable via PC using
- USB communications Front panel configuration with
- **PIN** protection
- Power save mode
- 3-phase generator sensing and protection
 3-phase mains (utility) sensing and
- protection (DSE6120 MKIII only) Automatic load transfer control (DSE6120 MKIII only) Generator current and power monitoring (kW, kvar, kVA, pf)
- Mains (utility) current and power monitoring (kW, kvar, kVA, pf) (DSE6120 MKIII only)
- kW overload alarm Over current protection
- Breaker control via fascia buttons Fuel and start outputs configurable
- when using CAN 6 configurable DC outputs 4 configurable analogue/digital
- inputs Support for 0 V to 10 V & 4 mA to 20 mA sensors



DSE6120 MKII

8 configurable digital inputs

frequency speed sensing in one

· Manual and automatic fuel pump

Engine pre-heat and post-heat

Engine idle control for starting &

3 configurable maintenance alarms Compatible with a wide range of

engine support Uses DSE Configuration Suite PC

IP65 rating (with optional gasket) offers increased resistance to water

CAN engines, including Tier 4

Software for simplified configuration

Ingress
 Configurable CAN read &

transmitted information.

1 alternative configuration.

Licence-free PC software

Engine run-time scheduler

CAN, MPU and alternator

variant

control

functions

Real time clock

stopping Fuel level alarms

KEY BENEFITS

- Automatically transfers between mains (utility) and generator (DSE6120 MKIII 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
- visibility 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

DC SUPPLY

CONTINUOUS VOLTAGE RATING 8 V to 35 V Continuous 5 V for up to 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 achieved without the need for internal batteries. LEDs and backlight will not be maintained during cranking.

MAXIMUM OPERATING CURRENT 260 mA at 12 V. 150 mA at 24 V

MAXIMUM STANDBY CURRENT 145 mA at 12 V. 85 mA at 24 V

CHARGE FAIL/EXCITATION RANGE 0 V to 35 V

GENERATOR & 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

MAGNETIC PICKUP VOLTAGE RANGE +/- 0.5 V to 70 V

FREQUENCY RANGE

10,000 Hz (max)

Resistive sensor

INPUTS DIGITAL INPUTS A TO H Negative switching

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

ANALOGUE INPUTS B & C Configurable as: Negative switching digital input Resistive sensor

OUTPUTS OUTPUT A & B (FUEL & START) 10 A DC at supply voltage

AUXILIARY OUTPUTS C, D, E, F, G & H 2 A DC at supply voltage

DIMENSIONS

OVERALL 216 mm x 158 mm x 43 mm 8.5" x 6.2" x 1.5"

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Control Panel: DEEPSEA 7320MKII

DSE7310/20 MKII

AUTO START & AUTO MAINS FAILURE CONTROL MODULES





- Configurable power-up mode MPU fail delay
- Enhanced graphical user interface Drag & drop advanced PLC editor
- MSC ID within PLC GenComm
- override
- 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
- images 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
- 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

required)

POWER SOLUTIONS

- 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
- inaress 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 visibility
- 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 85 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 achieved 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 0 V to 35 V

GENERATOR & MAINS (UTILITY) VOLTAGE RANGE 15 V to 415 V AC (Ph to N) 26 V to 719 V AC (Ph to Ph

FREQUENCY RANGE 8.5 Hz to 75 Hz

VOLTAGE RANGE +/- 0.5 V to 70 V

FREQUENCY RANGE 10.000 Hz (max)

DIGITAL INPUTS A TO H Negative sw

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

ANALOGUE INPUTS B, C, D & E Configurable as: Negative switching digital input istive sensor

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

OUTPUTS C & D 8 A AC at 250 V AC (Volt-free)

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

OVERALL 245 mm x 184 mm x 51 mm 9.6" x 7.2" x 2.0"

PANEL CUT-OUT 220 mm x 160 8.7" x 6.3"

MAXIMUM PANEL THICKNESS 8 mm 0.3"

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

RATURE BANGE ODERATING TE -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 DSEWebNet® / IoT 4G Gateway (GSM/Ethernet)

Remote Communications Interface

The DSE890 MKII 4G gateway is used in conjunction with supported DSE controllers to provide remote monitoring and communications data via DSEWebNet® or third party MQTT brokers.

The DSE890 MKII gateway communicates with up to five connected DSE controllers, monitoring instrumentation and operating states. When this data changes, data is logged internally and transmitted from the gateway device to the DSEWebNet® or MQTT broker (Amazon Web Services, Google, IBM etc..).

DSFWebNet[®] software is accessed using an Internet browser or the dedicated app. Users are able to perform multiple tasks including: monitoring equipment, clearing alarm conditions, starting/stopping equipment and monitoring fuel levels.

The IoT feature of the DSE890 MKII supports MQTT V 3.1.1 (ISO/IEC 20922:2016). This enables connection to a third party server that is running an MQTT broker, whilst simultaneously supporting connection to the DSEWebNet[®] server.

For additional information on DSEWebNet® software refer to data sheet 055-192.

Note: The DSE890 MKII also supports 2G & 3G



SPECIFICATIONS

DC SUPPLY CONTINUOUS VOLTAGE RATING 8 V to 36 V continuous

CRANKING DROPOUTS Able to survive 0 V for 100 mS, providing supply was at least 8 V before dropout and supply recovers to 8 V. This is achieved without the need for internal batteries

MAXIMUM OPERATING CURRENT 755 mA at 12 V

GSM GSM & GPS

GSM

376 mA at 24 V MAXIMUM STANDBY CURRENT 207 mA at 12 V 113 mA at 24 V 207 mA at 12 V

376 mA at 24 V 755 mA at 12 V

GSM & GPS 113 mA at 24 V

COMMUNICATIONS

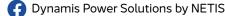
COMMONICATIONS USB (Single DSE Controller) CAN' (Multiple DSE Controllers) RS485 (Multiple DSE Controllers) Ethernet (Multiple DSE Controllers)

DIMENSIONS 85 mm x 149 mm x 51 mm

MOUNTING **DIN Rail** Chassis Mount

* Only active for third-party MQTT brokers.









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