

■ Model: TRAILER DY17SZ

Powered by SDEC - Silent Canopy









Generator Specification

Service	PRP ₍₁₎	ESP ₍₂₎
Power (kVA)	15	17
Power (kW)	12	13.6
Rated speed (r.p.m)	15	00
Standard voltage (V)	400/	230V
Rated at power factor(cos phi)	0.8	





Dynamis Power gensets are compliant with ISO9001 and CE standard, which include the following directives:

- · 2006/42/EC Machinery safety.
- · 2006/95/EC Low voltage
- EN 60204-1: 2006+A1: 2009, EN ISO12100: 2010, EN ISO13849-1: 2008, EN 12601:2010

(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):

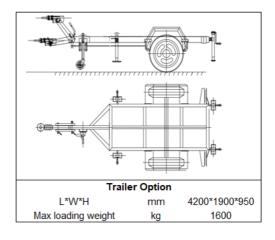
According to ISO8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. No overload capability is available.

Power	ES	SP SP	PR	RP.	Standby
Voltage (V)	KVA	KW	KVA	KW	Amps
415/240	17	13.6	15	12	23.6
400/230	17	13.6	15	12	24.7
380/220	17	13.6	15	12	25.8

Performance Data			
Model	DY17SZ-S12		
Engine brand	SDEC		
Engine model	4Z2.3-G11		
Speed control type	Electric		
Phase	3		
Control system	Digital		
Starter motor voltage	1 2 V		
Frequency	50HZ		
Engine speed (RPM)	1500		

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, ClassA2



Note: This parameters allows for some acceptable deviations.





■ Engine Specification: 4Z2.3-G11

Description	diesel, 4-stroke, water-cooled, atmospheric, direct injection, electronic speed control	
Number and arrangement of cylinders	4 cylinders, in-line, vertical, 2 valves per cylinder	
Constant Power	16 kW	
Reserve power	18 kW	
Rotation frequency	1500 rpm	
Accuracy of speed control	+/- 5%	
Engine displacement	2.3 l	
piston stroke	85 mm	
Piston diameter	100 mm	
Compression ratio	18.5:1	
The order of operation of the cylinders	1-3-4-2	
Oil type	SAE 15W40 / 10W30	
Oil system capacity	8.0	
Specific consumption of oil for waste	0.3%	
coolant type	GOST 28084-89	
Cooling capacity	3.0	
Exhaust gas temperature	550 °C	
Exhaust flow	6.5 m³/min	
Fuel consumption:		
Diesel fuel	GOST 305-82	
25% PRP	1.8/h	
50% PRP	2.6 l/h	
75% PRP	4.7l/h	
100% PRP	5.7 l/h	
Electrical system		
System voltage	12 V	
Starting device	electric starter 3.5 kW	
Charging generator	14 V x 35 A	
Accumulator battery	1x12VAh	

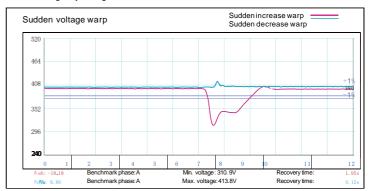


■ Alternator Specification: DY164D

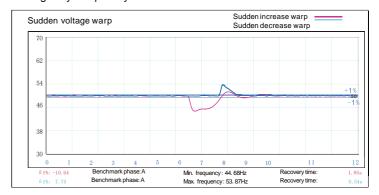
Alternator	
Number of phase	3
Power factor (Cos Phi)	0.8
Poles	4
W inding Connections (standard	d) Star-serie
Terminals	12
Insulation type	H class
Winding Pitch	2/3
IP rating	IP23
Excitation system	Self-excited
Bearing	Single bearing
Coating	Vacuum impregnation
Voltage regulator	A.V.R
Couping	Flexible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



Emergency voltage curve



Emergency frequency curve



Options

Engine	Alternator	Generator Sets	Fuel System
Water JacketPre-heaterFuel 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 feeding 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 controller Adjustable earth leakage relay



Control Panel: DEEPSEA 7320MKII

DSE**7310/20 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 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
- 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
- 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 modern

- 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 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.

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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

MAXIMUM OPERATING CURRENT

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

CHARGE FAIL/EXCITATION RANGE 0 V to 35 V

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

MAGNETIC PICKUP VOLTAGE RANGE

+/- 0.5 V to 70 V

FREQUENCY RANGE 10,000 Hz (max)

DIGITAL INPUTS A TO H

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

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

-40 °F to +185 °F

MAXIMUM PANEL THICKNESS

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

OPERATING TEMPERATURE RANGE -80°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)



DSF890 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..).

DSEWebNet® 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 connections.



SPECIFICATIONS

CONTINUOUS VOLTAGE RATING

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 376 mA at 24 V 755 mA at 12 V GSM & GPS 376 mA at 24 V

MAXIMUM STANDBY CURRENT

207 mA at 12 V GSM 113 mA at 24 V

COMMUNICATIONS

USB (Single DSE Controller) CAN* (Multiple DSE Controller) RS485 (Multiple DSE Controllers) Ethernet (Multiple DSE Controllers)

DIMENSIONS

85 mm x 149 mm x 51 mm

Chassis Mount

* Only active for third-party MQTT brokers.



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■ TRAILER (Optional)









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