GENYARD

GY350 DIESEL GENERATOR SET

Standby & Prime: 50 Hz

Output Ratings	Standby	Prime
400-415 V, 3 ph., 50 Hz, 1500 rpm	400.0 kVA / 320.0 kW	350.0 kVA / 280.0 kW
Ratings at 0.8 Power Factor		

Image shown might not reflect actual Genset

ENGINE SPECIFICATIONS	
Engine Make & Model	Perkins ,2206A-E13TAG2
Gross Engine Prime Power, KWm (hp)	324.2 (434.7)
Gross Engine Standby Power, KWm (hp)	368.4 (494.0)
Number of Cylinders, Arrangement / Cycle	6 Vertical in line / 4 stroke
Aspiration	Turbocharged and air to air charge cooled
Displacement, L (cu. in)	12.5 (762)
Bore / Stroke, mm (in)	130.0 (5.11)/157.0 (6.18)
Governor Type	Electronic
Governor class	ISO 8528 - Class G2
Compression Ratio	16.3 :1
Cooling Method	Water
Battery and Charger Alternator	24 VDc , 70 Amp

FUEL SYSTEM		
Fuel filter	'Ecoplus' fuel filter elements with primary filter/water separator	
Recommended Fuel	Class A2 Diesel	
Fuel Consumption	**Prime**	**Standby**
Fuel Consumption 50% L/hr (US gal/hr)	37.0 (9.8)	
Fuel Consumption 75% L/hr (US gal/hr)	54.0 (14.3)	
Fuel Consumption 100% L/hr (US gal/hr)	71.0 (18.75)	80.0 (21.1)

EXHAUST SYSTEM		
	Prime	**Standby**
Exhaust gas flow at set rated load, m3/min	56.6	64.8
Exhaust gas temperature, °C	630	630
Maximum exhaust back pressure, kPa	6.8	

AIR SYSTEM		
	Prime	**Standby**
Combustion Air Flow: m3/min	21.3	23.6
Air Filter Type	Dry Element	

ALTERNATOR SPECIFICATIONS	
Make	Leroy Somer
Model	TAL 046H
Number of Poles	4
Type of Bearing	Single
Ingress Protection Rating	IP 23
Excitation System	Shunt Excited
Insulation Class	H
Winding Pitch	2/3
AVR Model	R150

ALTERNATOR OPERATING DATA	
Overspeed	2250 r.p.m
Voltage Regulation	± 0.8 %
Total Harmonic Distortion THD	No load < 2.5%, Linear load <5%
Radio Interface	EN 61000-6-2 & EN 61000-6-4
Cooling Air Flow, m³/sec	0.48

LUBRICATION SYSTEM	
Oil Filter Type	Full-flow replaceable'Ecoplus' filter
Total Oil Capacity, L (US gal)	40.0 (10.5)
Oil Pan Capacity, L (US gal)	38.0 (10.0)
Oil Type	API CH4/CI4; SAE 15W-40

COOLING SYSTEM	
Coolant capacity (with radiator), L (US gal)	51.4 (13.57)
Fan load, KWm	14.0
Cooling system air flow, m3/min	654.0

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CONTROL PANEL (STANDARD)

Make: Deep Sea

Model: DSE6120

The **DSE6120 MKII** is an Auto Mains (Utility) Failure Control Module suitable for a wide variety of single diesel or gas genset applications, the modules will display warnings, shutdown and engine status information on the back-lit LCD screen. This module can either be programmed using the front panel or by using the DSE configuration suite PC software.

Metering

- Generator frequency
- Generator volts (L-L, L-N)
- Generator/load power monitoring (kW, kVA, kVAr, pf)
- Generator current
- Engine oil pressure
- Engine coolant temperature
- Hours run counter
- Battery volts

Alarm indications and Communication

- Fail to start/stop
- Overspeed
- Low Oil Pressure
- High coolant temperature
- Low DC voltage
- Emergency stop
- Fuel level (Warning or shutdown) - Optional
- Analog Inputs.
- Digital Input/output
- CAN diagnostics and CAN fail/error
- Ingress Protection IP65.

SOUND ATTENUATED AND WEATHER PROTECTIVE ENCLOSURE

CONSTRUCTION

- Modular type sound-proof canopy with Steel locks and Zinc alloy hinges.
- Body made from galvanized steel components (1.8mm) treated with polyester powder coating.
- Canopy installation executed with screw and nut, without welding process.

CONVENIENT ACCESS FOR MAINTENANCE

- Two Separate Lockable doors on each side
- Radiator fill access plastic cap
- Vertical hinged side door 180º opening rotation
- Removable rear panel, which allows access when needed (radiator side)

TRANSPORTABILITY

- Tested and certified lifting points facility depending on genset size.

SECURITY AND SAFETY

- Transparent Control panel viewing window in a lockable access door.
- Emergency stop push-button (red) fixed externally for quick access.
- Cooling fan and battery charging alternator fully guarded.
- Fuel fill and battery can only be reached via lockable access doors.
- Exhaust silencing system totally enclosed for operator safety.
- Insulation with Non-flammable acoustic foam.

SOUND PRESSURE LEVEL

- Noise Pressure level tested ~ 75 - 85 dBA@ 7m
- IP Rating up to IP45

STANDARD FEATURES

FILTRATION SYSTEM

- Air filter
- Fuel filter
- Full flow lube oil filter

All filters have replaceable elements

GENSET MOUNTED RADIATOR

Radiator and cooling fan, complete with safety guards, designed to cool the engine at high ambient temperatures.

BASE FRAME

Heavy Duty Base frame with built-in tank & forklift pockets.

EXHAUST SYSTEM

Heavy duty Silencer.

ANTI-VIBRATION MOUNTING PADS

Anti-Vibration pads are affixed between the Engine / Alternator feet and the Base frame thus ensuring complete vibration isolation of the rotating assembly.

SAFETY GUARDS

The Fan & Fan Drive along with the Battery Charging Alternator are Safety Guard protected for personnel protection.

CIRCUIT BREAKER TYPE

ABB/equivalent 3 pole MCCB.

STARTING BATTERIES

Set of Lead Acid Starting Battery, Tray and Leads.

STANDARD FACTORY TESTS

Generators are load tested and inspected before dispatched.

DOCUMENTATIONS

Operation & Maintenance manual, wiring diagrams.

WARRANTY

All of the Generating Sets are covered under a warranty policy:
PRIME: One Year or 3000 hours whichever occur first.
STANDBY: Two Years limited to 500 hours annual operation.
(check warranty statement for more details)

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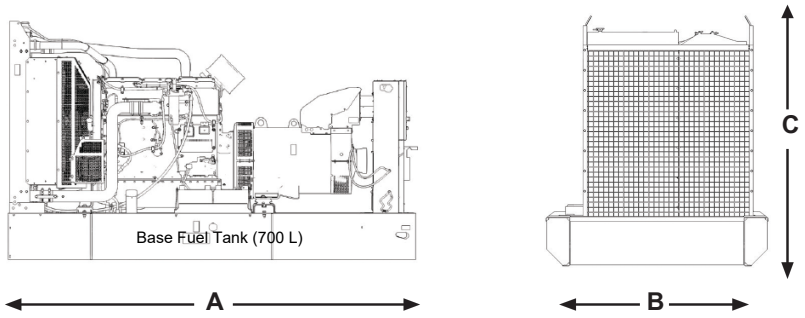
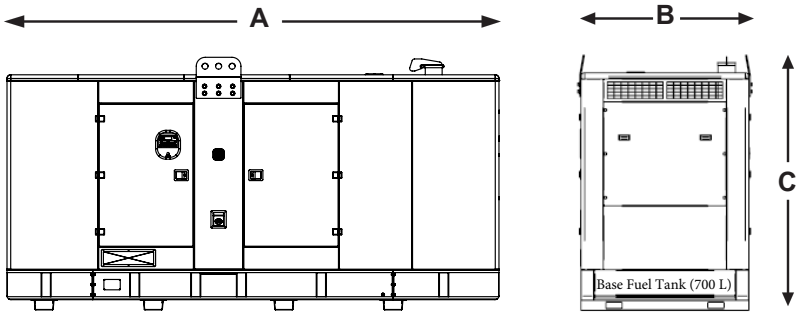
WEIGHTS & DIMENSIONS



Note: General configuration not to be used for installation. See general dimension drawings for detail.

GENSET TYPE	Dim “A” mm (in)	Dim “B” mm (in)	Dim “C” mm (in)	Dry Weight kg (lb)	Wet Weight kg (lb)
OPEN	3750 (147.64)	1150 (45.27)	2200 (86.6)	3725 (8212)	3800 (8377)
CLOSE	4900 (192.91)	1712 (67.40)	2515 (99.01)	5280 (11640)	5400 (11904)



APPLICABLE MANUFACTURERS COMPONENTS STANDARDS: CSA C22.2 n°100-14 and UL 1446., IEC60034-1, ISO3046, ISO8528, NEMA MG1.32-33 , IEC 61000-6-2, IEC 61000-6-3, IEC 61000-6-4, VDE 0875G, VDE 0875N and EN 55011

Note: Please refer to technical data sheets for more applicable standards.

STANDBY (ESP): Output available with varying load in the event of a utility power failure (Emergency). Typical operation is 200 hours per year, No overload is permitted on these ratings.

PRIME (PRP): Output available with varying load for an unlimited time. Typical peak demand is 100% of prime rated ekW with 10% overload capability for emergency use for a maximum of 1 hour in 12 hours.Overload operation cannot exceed 25 hours per year as per ISO8528.

RATINGS: Ratings are based on SAE J1349 standard conditions. These ratings also apply at ISO3046 standard conditions.

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