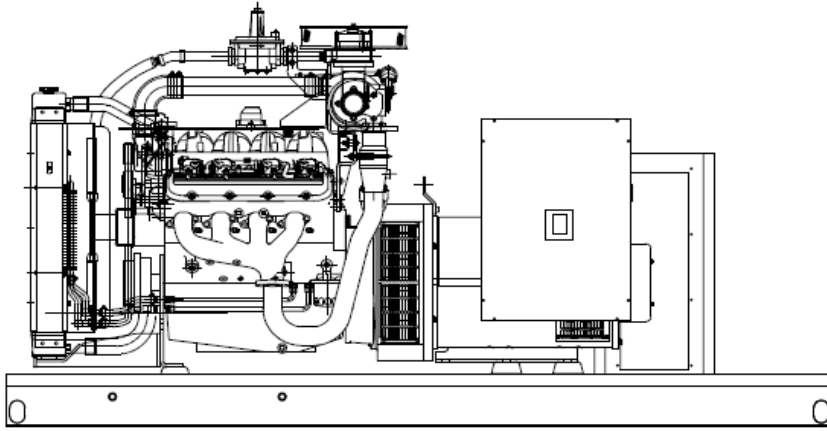


# GR150P4

LIQUID COOLED VAPOR FUELED GASEOUS GENERATOR SET

# WINPOWER

Est. 1925



**Standby Rating**

**150kW 60Hz**

Powered by ...

**PSI 8.8L**

**TCAC**

## EXPERIENCED DESIGN

- EXPERIENCE IN THE GENERATOR INDUSTRY SINCE 1925
- DESIGNED FOR LONG LIFE TO MAXIMIZE RETURN ON INVESTMENT
- WELDED AND POWDER COATED STEEL BASE
- RUBBER ISOLATION ENGINE AND GENERATOR MOUNTS
- ELECTRICIAN FRIENDLY SINGLE COVER CONNECTION POINTS
- LOAD BANK TESTED
- SINGLE STEP 100% LOAD TESTED
- OPERATOR MANUAL PACKAGE INCLUDING ENGINE AND GENERATOR MANUAL
- STARTING BATTERY NOT INCLUDED (BCI GROUP 31 900 CCA)

## ENGINE

- POWER SOLUTIONS INTERNATIONAL
- VAPOR FUELED ENGINE – OPERATES ON NG & LP FUEL
- EPA CERTIFIED FOR STANDBY APPLICATIONS
- V 8 CONFIGURATION
- ELECTRONIC IGNITION
- STAINLESS EXHAUST MANIFOLDS
- TURBO CHARGED AIR COOLED

## DSE 7310 CONTROLLER

- GENERATOR PROTECTION AND METERING
- EVENT FAULT LOG RECORDING
- 9 CONFIGURABLE INPUTS (EXPANDABLE TO 24)
- 6 CONFIGURABLE OUTPUTS (EXPANDABLE TO 80)
- STARTER SOLENOID CONTROLS

## GENERATOR

- STANDBY RATED
- BRUSHLESS ROTATING FIELD
- WOUND 2/3 PITCH FOR LOW HARMONIC DISTORTION
- CLASS H WINDING INSULATION FOR PEAK PROTECTION
- MEETS BS EN 60034, BS5000, VDE 0530, NEMA MG1-32, ICE34, CSA C22.2-100, AS1359
- SX460 AUTOMATIC VOLTAGE REGULATION STANDARD STEADY STATE VOLTAGE +/- 1.5%
- OPTIONAL PMG WITH 1% OR .5% VOLTAGE REGULATION ISOLATES THE AVR CONTROL CIRCUIT FROM THE EFFECTS OF NON-LINEAR LOADS, REDUCES TRANSIT VOLTAGE DIP DURING HEAVY MOTOR STARTING. BUILT IN OVER-EXCITATION PROTECTION IN CASE OF A SHORT CIRCUIT

## ENGINE SPECIFICATIONS

MAKE .....	PSI
MODEL .....	8.8 INDUSTRIAL
TYPE .....	NG/LP VAPOR FUEL
BASE HORSEPOWER-STANDBY .....	240 HP
ENGINE CONTROL .....	ENGINE MOUNTED ECU
FUEL DELIVERY .....	VENTURI WITH DEMAND REGULATOR
SPEED GOVERNOR .....	ELECTRONIC
CYLINDERS .....	8
TOTAL DISPLACEMENT .....	8.8L
BORE X STROKE .....	IN 4.35 X 4.50
ASPIRATION .....	TURBO CHARGED AIR COOLED
COOLING .....	LIQUID
COOLANT TYPE .....	DEX-COOL LONG LIFE
HOUSING .....	SAE 3
FLYWHEEL (TEETH 125).....	11½ INCHES
ROTATION .....	CCW
TOTAL OIL CAPACITY .....	2.25 GAL
EXHAUST OUTLET SIZE @ MUFFLER .....	5"
ELECTRICAL SYSTEM (NEGATIVE GROUND).....	12 VDC
ALTERNATOR.....	70 AMPS
BATTERY (NOT INCLUDED BCI 31) .....	900 CCA

## ALTERNATOR SPECIFICATIONS

RATING .....	(125/40°C) STANDBY
TYPE .....	4 POLE – REVOLVING FIELD
SPEED .....	1800 RPM
INSULATION SYSTEM .....	CLASS H
THREE PHASE.....	12 LEAD
STATOR WINDINGS.....	DOUBLE LAYER CONCENTRIC
PITCH.....	2/3
WAVEFORM DISTORTION .....	1.5%
TELEPHONE INTERFERENCE .....	<2.0%
EFFICIENCY PEAK.....	~92.5%
COUPLING .....	FLEXIBLE DISC
BEARINGS (MAINTENANCE FREE).....	1
VOLTAGE CONTROL..... (SX460 STANDARD) SELF EXCITED	
REGULATION.....	+/- 1%
THREE PHASE RATING.....	0.8PF

**Permanent Magnet Generator Available**

**If the information that you require is not shown, please contact your dealer.**

## GENERATOR CONTROLLER

### General

Deep Sea digital genset controllers are highly advanced microprocessor controllers. Each model is designed to stand up to the harshest conditions providing timely performance information and safety shutdowns. The GR150P4 comes standard with the DSE 7310.

Feature	DSE7310
<b>Engine Display/Protection</b>	
Engine RPM	X
Low Oil Pressure	X
High Coolant Temperature	X
Low Coolant Level	Optional
Over speed	X
Under speed	X
Over crank	X
Charging Alternator Failure	X
CAN ECU Shutdown	X
<b>Genset Display/Protection</b>	
Voltage (L-N)	X
Voltage (L-L)	X
Overvoltage	X
Under voltage	X
Frequency	X
Over frequency	X
Under frequency	X
Phase Imbalance	Disabled
Amp Display/Shutdown	X
kW, kVa, kVAr, pf Display	X
kWh, kVAh, kVArh Display	X
Generator Phase Sequence	X
Earth Current	Optional
Emergency Stop	X
Fuel Leak/Sender Failure	N/A
High Fuel Level	N/A
Low Fuel Level	N/A
Fuel Level	N/A
Battery Voltage	X
Battery Over/Under Voltage	X
Battery Charger Failure	Optional
Audible Alarm	X
<b>Communications</b>	
USB Connectable	X
RS232/RS485	X
NFPA Annunciator	10xDSE2548
Remote Display Panel	3xDSE2510
Ethernet/Modem	Optional
<b>Optional Features</b>	
Engine Exerciser	X
Maintenance Interval Timer	3 Event
Load Shedding/Dummy	5 Step
Configurable Inputs	9-24w/DSE2130
Configurable Outputs	6-80w/DSE2751
Event Log	250
Alternative Configurations	3
UL/CSA Listed	X

Electrical Output – Standby		Natural Gas Fuel			LP Vapor Fuel			
Output Voltage – 60Hz	kW	kVa	Amperes	CB Size	kW	kVA	Amperes	CB Size
120/240, 1-phase, 1.0 pf	150	150	625	600	125	125	520	600
120/208, 3-phase, 0.8 pf	150	187	521	600	125	156	434	600
120/240, 3-phase, 0.8 pf	150	187	452	500	125	156	375	500
277/480, 3-phase, 0.8 pf	150	187	226	225	125	156	187	225

Consult factory for switchable voltage & 50 Hz.

### Fuel Consumption

NG Fuel consumption .....2,004,300 BTU/hr  
 100% Load (NG)..... 1965 ft<sup>3</sup>/hr  
 LP Vapor Fuel consumption ..... 1,832,410 BTU/hr  
 100% Load (LP Vapor)..... 713 ft<sup>3</sup>/hr  
 Inlet Pressure..... 7-11 in. H<sub>2</sub>O  
 Fuel Inlet Size .....1.25 in. NPT

### NFPA 110 Level 1 Package Option

This option provides a higher state of readiness in accordance with NFPA 110. Option includes a dual rate battery maintenance charger with failure indication, 16-light remote annunciator, low coolant level indication, block heater upgrade that maintains 100°-120°F and enhanced genset controller pre-alarm settings.

### Derating Factors

Temperatures > 104°F ..... 3% per 10°F  
 Altitude ..... 3% per 1000 ft

### Engine Block Heater Specifications

- Volts – 120
- Watts – 1000
- Thermostat On/Off - 100°/120°F

### Limited Warranty

Winpower warrants its product from material defects for a period of one year or 1000 hrs. PSI warrants the engine for commercial applications for 3 years or 3500 hours. Contact Winpower for copies of full warranty statements.

## Options and Accessories

### Optional Fuel Accessories

- Contact Factory

### Battery Chargers

- 2 amp (Standard)
- 5 amp w/Fail Contact
- 10 amp w/Fail Contact
- 10 amp NFPA Compliant

### Enclosure Options

- POWR-PAK (Open skid, no enclosure)
- SOUND-PAK (76 dBA)

### Controller Options

- DSE 7310 (Standard)
- NFPA 110 Level 1
- 16 Light Remote Annunciator
- Remote Display Panel (DSE 2510)
- Ethernet
- DSE 2130 Input Expansion
- DSE 2751 Output Expansion

### Generator Accessories

- Anti-condensation Heater
- PMG
- Oversized Generator
- 12 Lead (Double Delta) Single Phase

Distributed by

\*\*SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE\*\*

