

Ingersoll Rand PowerSource Specification

Model	G160
Prime power	158 kVA
Standby power	174 kVA



Engine data

Make	Ingersoll Rand
Model	6IRF8AE
Rated speed	1500 rpm
Prime output @ rated speed	139 kW
Standby output @ rated speed	152,87 kW
Engine type	Inline 4 cycle
Engine control	ECU
Emissions certification	EU Stage 2
Number of cylinders	6
Aspiration	Turbocharged w/ charge air intercooling
Coolant	Water / Glycol
DC system voltage	12 V
Governor type	ECU
Speed regulation accuracy (steady state)	+ / - 0.25%
Frequency drop (no load to full load)	0,25 %
Oil sump capacity	32,5 L
Cooling system capacity	31,2 L

Alternator data

Alternator manufacturer	Leroy Somer
Alternator model	44.2 L12
Alternator type	Four pole, revolving field
Number of leads	12
Insulation class	H
Alternator excitation type	AREP
Frequency	50 Hz
Voltage regulation accuracy (steady state)	+/-0.5 %
Single step load acceptance	100 %
Available voltages - three phase	230/400 V
Available voltages - single phase	230 V

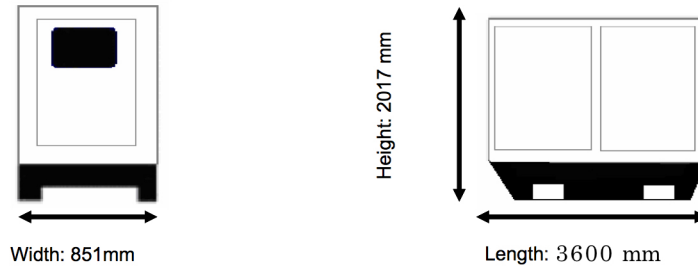
Fuel consumption

Fuel tank usable capacity	961 L
Fuel consumption @ 100% load	33,1 L/hr
Fuel consumption @ 75% load	25,1 L/hr
Fuel consumption @ 50% load	17,6 L/hr
Fuel consumption @ 25% load	9,6 L/hr
Runtime @ 100% load	30 hr
Runtime @ 75% load	39 hr
Runtime @ 50% load	55 hr
Runtime @ 25% load	101 hr

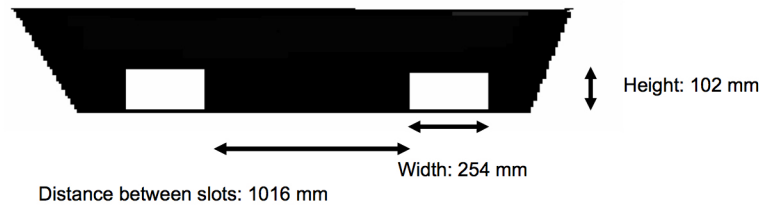
Weights & dimensions

Shipping weight
Operating weight

2678 kg
3567 kg



Forklift Slot



Sound level

Maximum sound power level
Sound pressure @ 7 meter

95 (LwA)
67,6 dBA

Limiting conditions

Maximum ambient temperature
Maximum relative humidity
Minimum starting temperature (standard)
Minimum starting temperature (w/ cold start option)

40 °C
100 %
-12 °C
-23 °C

Standard features

Double-wall fuel tank	Standard feature
Bunding capacity min.110% fluid	Standard feature
Forklift pockets	Standard feature
Two stage heavy duty air filter	Standard feature
Earth rod & cable	Standard feature
Central lifting point	Standard feature
External emergency stop button	Standard feature
Battery isolator switch	Standard feature
Protective guard against hot spots	Standard feature
Remote start	Standard feature
Single 80% step load capability	Standard feature
Oil sump pump	Standard feature
Voltage adjusting potentiometer	Standard feature
4-pole circuit breaker	Standard feature
Rigid bus bar terminal (5 poles)	Standard feature
Low level coolant shutdown	Standard feature
Earth leakage protection	Adjustable

Options

Digital control panel	Available
Adjustable earth leakage protection	Standard feature
Sockets	Available
3 way fuel valve	Available
Block/jacket heater	Available
Battery heater kit	Available
Battery charger	Available
Spark arrestor option	Available
Air shut off valve	Available
Electronic governor	Standard feature
Heavy duty impregnation for alternator	Available
Road trailer	Not available
Customized colour	Available
Fuel water separator	Standard feature

Control Panel

	Analog Control Panel	Digital Control Panel
Measurements		
AC voltage phase-phase	Standard feature	Standard feature
AC voltage phase-phase and phase-neutral	Not available	Standard feature
AC amperes per phase	Standard feature	Standard feature
Ammeter selector switch	Standard feature	Standard feature
Frequency meter	Standard feature	Standard feature
Running hours	Standard feature	Standard feature
Fuel level	Standard feature	Standard feature
Oil pressure	Option available	Standard feature
Coolant temperature	Option available	Standard feature
Battery voltage	Standard feature	Standard feature
RPM (rotation per minute)	Not available	Standard feature
Indicators		
Engine running	Standard feature	Standard feature
Preglow	Standard feature	Standard feature
ECU status	Standard feature	Standard feature
In-auto light	Standard feature	Standard feature
Not-in-auto light	Not available	Not available
Shutdown & Warnings		
Low oil pressure shutdown	Standard feature	Standard feature
High coolant temperature shutdown	Standard feature	Standard feature
Low coolant level shutdown	Standard feature	Not available
Engine general fault shutdown	Standard feature	Standard feature
Engine overspeed shutdown	Standard feature	Standard feature
Engine overcrank	Standard feature	Standard feature
Low fuel warning/shutdown	Standard feature	Standard feature
Battery charge fail warning	Standard feature	Standard feature
High containment level warning	Standard feature	Standard feature
Miscellaneous		
Panel lamp	Standard feature	Standard feature
Buttons for start/stop/mode/fault reset	Standard feature	Standard feature
Emergency stop shutdown	Standard feature	Standard feature
Auto start/stop	Standard feature	Standard feature
Engines diagnostic codes on display	Not available	Standard feature
Language selection	Not available	Standard feature
History capability (events/warning/shutdown)	Not available	Digital feature

Analog Control Panel



Digital Control Panel



Socket configurations

European:

- 1 X CE 1Ø 16A 230V
- 1 X CE 3Ø 32A 400V
- 1 X CE 3Ø 63A 400V
- 1 X Schuoco 1Ø 16A 230V

UK:

- 2 X CE 1Ø 16A 110V
- 1 X CE 3Ø 32A 400V
- 1 X CE 3Ø 63A 400V

- 1 X Room for additional socket



Example

Manuals

One complete set of operation & parts manuals comes with every machine

Testing

Each set is individually load tested and all protection device and control functions are simulated and checked prior to dispatch.

Rating Definitions:

Prime Power

Prime power is the maximum power available at a variable load for an unlimited number of hours. A 10% overload capacity is available for a limited time (maximum of 1 hour in 12 hours).

Standby Power

Standby power is applicable for supplying emergency power for the duration of normal power interruption. No sustained overload capability is available for this rating. This rating is applicable to installations served by a reliable normal utility source. This rating is only applicable to variable loads with an average load factor of 80 percent of the standby rating for a maximum of 200 hours of operation per year and a maximum of 25 hours per year at 100% of its standby rating. The standby rating is only applicable to emergency and standby applications where the generator set serves as the back up to normal source. No sustained utility parallel operation is permitted with this rating.

Warranty

Ingersoll Rand protects your purchase or lease with a 1 year or 2,000 hours warranty (whichever first occurs) on the entire package, 2 years or 4,000 hours on the alternator and 2 years or 4,000 hours on Ingersoll Rand engines (G10 to G200) and 2 years or 2,000 hours on Cummins engines (G250 to G500).

Notes

Product improvement is a continuous goal at Ingersoll Rand. Designs and specifications are subject to change without notice or obligation.