

# PI 150C



Rev-1

Industrial Generating Set

MODEL	rpm / Hz	VOLTAGE	PRIME <sup>(1)</sup>	STANDBY <sup>(2)</sup>
PI 150C	1500 / 50	400 / 230	136.0 kVA / 109.0 kWe	150.0 kVA / 120.0 kWe

Full rated power available upto 100 meter elevation at ambient of 27degC, for other temperature and altitude limits please consult application team.

No. of Cylinders   6 Vertical In-line     Cycle   4 Strokes     Aspiration   Turbocharged and Charge Ar Cooled     Aspiration   Turbocharged and Charge Ar Cooled     Governing Type   Electronic     Governing Class   G2 - ISO 8528 Part 1     Compression Ratio   16.5 : 1     Displacement   5.9 L / 360 in <sup>3</sup> Bore/Stroke (mm / in)   (102/120) / (4.02/4.72)     Battery and Charge Alremator   12 VDC, 55Amp     Air SYSTEM   Dry Element     Combustion Air Flow (PRP)   8.34 m <sup>3</sup> /min     Radiator Air Flow   162 m <sup>3</sup> /min     Coolling System   Salf L/ 2.4 US gal     Mater Pump Type   Centrifugal Eng-Driven     Radiator to Room (PRP)   15 Kw     Heat Radiation to Room (PRP)   15 Kw     Heat Radiation to Room (PRP)   15 Kw     Heat Radiation to Room (PRP)   16 kW     LUBRICATION SYSTEM   Overspeed   2250 r.p.m     Oil Flitter Type   Spin on full flow filter     Total Oil Capacity   16.4 L / 4.33 US gal.     Oil Flitter Type   Spin on full flow filter     Total Oil Capacity   16.4 L / 4.33 US ga	Rated Output (PRP) <sup>(1)</sup> 135 kW <sub>m</sub>		Fuel Filter: Spin on full flow filter with water separator					
No. of Cylinders   6 Vertical In-line     Cycle   4 Strokes     Aspiration   Turbocharged and Charge Ar Cooled     Aspiration   Turbocharged and Charge Ar Cooled     Cooling Method   Water     Governing Type   Electronic     Governing Class   G2 - ISO 8528 Part 1     Compression Ratio   16.5 : 1     Displacement   5.9 L / 360 in <sup>3</sup> Bore/Stroke (mm / in)   (102/120) / (4.02/4.72)     Battery and Charge Alternator   12 VDC, 55Amp     Air Filter Type   Dry Element     Combustion Air Flow (PRP)   8.34 m <sup>3</sup> /min     Radiator Air Flow   162 m <sup>3</sup> /min     Coolling SYSTEM   Number of Poles     Conbustion Air Flow   162 m <sup>3</sup> /min     Total Coolant Capacity   9.1 L / 2.4 US gal     Insulation Class / Temp Rise   H / H     Total Coolant Capacity   9.1 L / 2.4 US gal     Water Pump Type   Centrifugal Eng-Driven     Radiator to Room (PRP)   15 Kw     Heat Radiation to Room (PRP)   15 Kw     Heat Radiation to Room (PRP)   16 kW     LUBRICATION SYSTEM   Overspeed   2250 r.p.m <tr< td=""><td colspan="2">Rated Output (ESP) (2)</td><td>145 kW<sub>m</sub></td><td>Recommended Fuel</td><td colspan="2">ommended Fuel C</td><td colspan="2">Class A2 Diesel</td></tr<>	Rated Output (ESP) (2)		145 kW <sub>m</sub>	Recommended Fuel	ommended Fuel C		Class A2 Diesel	
Cycle4 StrokesAspirationTurbocharged and Charge Ar CooledAspirationTurbocharged and Charge Ar CooledCooling MethodWaterGoverning TypeElectronicGoverning ClassG2 - ISO 8528 Part 1Compression Ratio16.5 : 1Displacement5.9 L / 360 in³Bore/Stroke (mm / in)(102/120) / (4.02/4.72)Battery and Charge Alternator12 VDC, 55AmpAir SYSTEMDry ElementCombustion Air FlowDry ElementCombustion Air Flow162 m³/minCoolling SYSTEMDry ElementCoolling System12 MWRadiator Air Flow162 m³/minRadiator Fan Load10 kWHeat Radiation to Room (PRP)15 kwHeat Radiation to Room (PRP)15 kwHeat Radiation to Room (PRP)15 kwHeat Radiation to Room (PRP)16 kWLUBRICATION SYSTEMOverspeedOil Fliter TypeSpin on full flow filterTotal Oil Capacity16 kL / 4.33 US gal.Oil Fliter TypeSpin on full flow filterTotal Oil Capacity16 kL / 4.33 US gal.Oil Fliter TypeSpin on full flow filterTotal Oil Capacity16.4 L / 4.33 US gal.Oil Pan14.3 L / 3.78 US gal.	Engine Make & Moo	ngine Make & Model		Fuel Consumption Sta	andby	dby 37.0 L/hr / 9.9 US gal/h		
Aspiration   Turbocharged and Charge Air Cooled   Fuel Consumption 50% PRP   18.0 L/hr / 4.8 US gat     Cooling Method   Water   Batter Cooled   Muffler Type   Residential Grade     Governing Class   G2 - ISO 8528 Part 1   Muffler Type   Residential Grade     Compression Ratio   16.5 : 1   EXHAUST SYSTEM   10.25 kPa     Displacement   5.9 L / 360 in³   Exhaust Gas Flow (PRP/ESP)   29.88 / 31.2 m³/min     Displacement   5.9 L / 360 in³   Exhaust Gas Temperature (PRP/ESP)   29.88 / 31.2 m³/min     Battery and Charger Alternator   12 VDC, 55Amp   Rated Output (Prime) <sup>(1)</sup> 140.0 kVA     Air Filter Type   Dry Element   Number of Poles   4     Combustion Air Flow (ESP)   8.94 m³/min   Number of Vinding Leads   12     Radiator Fan Load   10 kW   Efficiency   91.4%   112     Water Pump Type   Centrifugal Eng-Driven   Single   Ingress Protection Rating   IP 23     Radiator Fan Load   10 kW   AltERNATOR OPERATING DATA   Verspeed   2250 r.p.m     Oil Filter Type   Spin on full flow filter   Voltage Regulation   ± 1.0 %     Wafeform distortion <td< td=""><td>No. of Cylinders</td><td colspan="2">No. of Cylinders</td><td>Fuel Consumption 100</td><td>% PRP</td><td colspan="2">RP 35.0 L/hr / 9.5 US gal/h</td></td<>	No. of Cylinders	No. of Cylinders		Fuel Consumption 100	% PRP	RP 35.0 L/hr / 9.5 US gal/h		
Aspiration   Charge Air Cooled   Fuel Consumption 50% PRP   18.0 Lhr / 4.8 05 ga     Cooling Method   Water   EXHAUST SYSTEM     Governing Type   Electronic   Muffler Type   Residential Grade     Governing Class   G2 - ISO 8528 Part 1   Muffler Type   Residential Grade     Compression Ratio   16.5 : 1   Exhaust Gas Flow (PRP/ESP)   29.88 / 31.2 m³/mi     Displacement   5.9 L / 360 in³   Exhaust Gas Temperature (PRP/ESP)   29.88 / 31.2 m³/mi     Battery and Charger Alternator   12 VDC, 55Amp   Rated Output (Prime) (1)   140.0 kVA     Air Filter Type   Dry Element   Rated Output (Stand by) (2)   150 kVA     Air Filter Type   0.9 ft L / 2.4 US gal   Number of Poles   4     Combustion Air Flow (ESP)   8.94 m³/min   Number of Winding Leads   12     Radiator Fan Load   10 kW   Excitation System   Self Excited     Meta Radiation to Room (ESP)   16 kW   AltERNATOR OPERATING DATA     UBRICATION SYSTEM   Oil Filter Type   Spin on full flow filter   No load <1.5%	Cycle		4 Strokes	Fuel Consumption 75%	6 PRP	27.0 L/hr	27.0 L/hr / 7.1 US gal/hr	
Governing TypeElectronicMuffler TypeResidential GradeGoverning ClassG2 - ISO 8528 Part 1Muffler TypeResidential GradeCompression Ratio16.5 : 1Exhaust Gas Flow (PRP/ESP) $29.88 / 31.2 \text{ m}^3/\text{min}$ Displacement $5.9 \text{ L} / 360 \text{ in}^3$ Exhaust Gas Flow (PRP/ESP) $29.88 / 31.2 \text{ m}^3/\text{min}$ Displacement $5.9 \text{ L} / 360 \text{ in}^3$ Exhaust Gas Temperature (PRP/ESP) $29.88 / 31.2 \text{ m}^3/\text{min}$ Battery and Charger Alternator $12 \text{ VDC}, 55\text{Amp}$ ALTERNATOR SPECIFICATIONSAir Filter TypeDry ElementRated Output (Stand by) (2) $150 \text{ kVA}$ Air Filter TypeDry ElementNumber of Poles4Combustion Air Flow (PRP) $8.34 \text{ m}^3/\text{min}$ Number of Poles4Radiator Air Flow $162 \text{ m}^3/\text{min}$ Number of Winding Leads $12$ Total Coolant Capacity $9.1 \text{ L} / 2.4 \text{ US gal}$ Ingress Protection RatingIP 23Radiator Fan Load $10 \text{ kW}$ Excitation SystemSelf ExcitedHeat Radiation to Room (ESP) $16 \text{ kW}$ $2250 \text{ r.p.m}$ UBRICATION SYSTEMOverspeed $2250 \text{ r.p.m}$ Oil Filter TypeSpin on full flow filter $Voltage Regulation t \pm 1.0 \%$ Total Oil Capacity $16.4 \text{ L} / 4.33 \text{ US gal}$ $Wafeform distortion$ $No \logad < 1.5\%$ Linear load <5%	Aspiration			Fuel Consumption 50%	6 PRP	18.0 L/hr	4.8 US gal/hr	
Governing ClassG2 - ISO 8528 Part 1Max. Back Pressure10.25 kPaCompression Ratio16.5 : 1Exhaust Gas Flow (PRP/ESP) $29.88 / 31.2 \text{ m}^3/\text{mi}$ Displacement5.9 L / 360 in <sup>3</sup> Exhaust Gas Flow (PRP/ESP) $29.88 / 31.2 \text{ m}^3/\text{mi}$ Bore/Stroke (mm / in)(102/120) / (4.02/4.72)Exhaust Gas Temperature (PRP/ESP) $519/520$ Battery and Charger Alternator12 VDC, 55AmpRated Output (Prime) ( <sup>11</sup> ) $140.0 \text{ kVA}$ Air Filter TypeDry ElementRated Output (Stand by) ( <sup>22</sup> ) $150 \text{ kVA}$ Air Filter TypeDry ElementNumber of Poles4Combustion Air Flow (ESP) $8.94 \text{ m}^3/\text{min}$ Number of Poles4CoolLING SYSTEMInsulation Class / Temp RiseH / HTotal Coolant Capacity $9.1 L / 2.4 \text{ US gal}$ Ingress Protection RatingIP 23Radiator Fan Load10 kWExcitation SystemSelf ExcitedHeat Radiation to Room (PRP)15 KwAVR ModelStamford - AS 440Heat Radiation to Room (ESP)16 kWOverspeed2250 r.p.mUBRICATION SYSTEMOverspeed2250 r.p.mVoltage Regulation $\pm 1.0 \%$ Oil Filter TypeSpin on full flow filterNo load <1.5% Linear load Standard EN61000-6-2:200Oil Pan14.3 L / 3.78 US gal.Radio InterfaceStandard EN61000-6-2:200	Cooling Method		Water	EXHAUST SYSTEM	EXHAUST SYSTEM			
Compression Ratio16.5 : 1Exhaust Gas Flow (PRP/ESP) $29.88 / 31.2 \text{ m}^3/\text{mi}$ Displacement $5.9 \text{ L} / 360 \text{ in}^3$ Exhaust Gas Flow (PRP/ESP) $29.88 / 31.2 \text{ m}^3/\text{mi}$ Bore/Stroke (mm / in) $(102/120) / (4.02/4.72)$ Exhaust Gas Temperature (PRP/ESP) $519/520$ Battery and Charger Alternator $12 \text{ VDC}$ , $55\text{Amp}$ Rated Output (Prime) <sup>(1)</sup> $140.0 \text{ kVA}$ Air Filter TypeDry ElementAlternator Make & ModelStamford UC1274ECombustion Air Flow (PRP) $8.34 \text{ m}^3/\text{min}$ Number of Poles $4$ Combustion Air Flow (ESP) $8.94 \text{ m}^3/\text{min}$ Number of Poles $12$ Radiator Air Flow $162 \text{ m}^3/\text{min}$ Type of BearingSingleCOOLING SYSTEMInsulation Class / Temp Rise $H / H$ Efficiency $91.4\%$ Vater Pump TypeCentrifugal Eng-DrivenIngress Protection RatingIP 23Radiator Fan Load10 kWExcitation SystemSelf ExcitedHeat Radiation to Room (PRP)15 kwAVR ModelStamford - AS 440Heat Radiation to Room (ESP)16 kWOverspeed2250 r.p.mOil Filter TypeSpin on full flow filterVoltage Regulation $\pm 1.0 \%$ Total Oil Capacity $16.4 L / 4.33$ US gal.Na load <1.5\% Linear load <5%	Governing Type		Electronic	Muffler Type		Residen	Residential Grade	
Displacement   5.9 L / 360 in <sup>3</sup> Bore/Stroke (mm / in)   (102/120) / (4.02/4.72)     Battery and Charger Alternator   12 VDC, 55Amp     AIR SYSTEM   Rated Output (Prime) <sup>(1)</sup> 140.0 kVA     Air Filter Type   Dry Element   Alternator Make & Model   Stamford UCI274E     Combustion Air Flow (PRP)   8.34 m <sup>3</sup> /min   Number of Poles   4     Combustion Air Flow (ESP)   8.94 m <sup>3</sup> /min   Number of Winding Leads   12     Radiator Air Flow   162 m <sup>3</sup> /min   Type of Bearing   Single     COOLING SYSTEM   Insulation Class / Temp Rise   H / H     Total Coolant Capacity   9.1 L / 2.4 US gal   Ingress Protection Rating   IP 23     Radiator Fan Load   10 kW   Excitation System   Self Excited     Heat Radiation to Room (PRP)   15 Kw   AVR Model   Stamford - AS 440     Heat Radiation to Room (ESP)   16 kW   Overspeed   2250 r.p.m     Oil Filter Type   Spin on full flow filter   Voltage Regulation   ± 1.0 %     Total Oil Capacity   16.4 L / 4.33 US gal.   Wafeform distortion   No load <1.5%	Governing Class		<b>G2</b> - ISO 8528 Part 1	Max. Back Pressure		10.25 ki	Pa	
Bore/Stroke (mm / in)   (102/120) / (4.02/4.72)     Battery and Charger Alternator   12 VDC, 55Amp     All SYSTEM   Rated Output (Prime) <sup>(1)</sup> 140.0 kVA     Air Filter Type   Dry Element   Alternator Make & Model   Stamford UCI274E     Combustion Air Flow (PRP)   8.34 m³/min   Number of Poles   4     Combustion Air Flow (ESP)   8.94 m³/min   Number of Poles   12     Radiator Air Flow   162 m³/min   Type of Bearing   Single     COOLING SYSTEM   Insulation Class / Temp Rise   H / H     Total Coolant Capacity   9.1 L / 2.4 US gal   Ingress Protection Rating   IP 23     Radiator Fan Load   10 kW   Excitation System   Self Excited     Heat Radiation to Room (ESP)   16 kW   Overspeed   2250 r.p.m     Oil Filter Type   Spin on full flow filter   Voltage Regulation   ± 1.0 %     Total Oil Capacity   16.4 L / 4.33 US gal.   Radio Interface   Standard EN61000-6-2:200	Compression Ratio		16.5 : 1	Exhaust Gas Flow (PR	Exhaust Gas Flow (PRP/ESP)		29.88 / 31.2 m <sup>3</sup> /min	
Battery and Charger Alternator12 VDC, 55AmpRated Output (Prime) (1)140.0 kVAAIR SYSTEMRated Output (Stand by) (2)150 kVAAir Filter TypeDry ElementRated Output (Stand by) (2)150 kVACombustion Air Flow (PRP) $8.34 \text{ m}^3/\text{min}$ Number of Poles4Combustion Air Flow (ESP) $8.94 \text{ m}^3/\text{min}$ Number of Winding Leads12Radiator Air Flow162 m^3/minType of BearingSingleCOOLING SYSTEMInsulation Class / Temp RiseH / H140.0 kVATotal Coolant Capacity9.1 L / 2.4 US galIngress Protection RatingIP 23Radiator Fan Load10 kWExcitation SystemSelf ExcitedHeat Radiation to Room (ESP)15 KwAVR ModelStamford - AS 440Heat Radiation to Room (ESP)16 kWOverspeed2250 r.p.mOil Filter TypeSpin on full flow filterVoltage Regulation $\pm 1.0 \%$ Oil Pan14.3 L / 3.78 US gal.Radio InterfaceStandard EN61000-6-2:200	Displacement		5.9 L / 360 in <sup>3</sup>	Exhaust Gas Tempe	Exhaust Gas Temperature (PRP/ESP) 519/520		519/520 °C	
AIR SYSTEM   Rated Output (Stand by)   Ratedoutput (Stand by)	Bore/Stroke (mm / in) (102/120) / (4.02/4.72)			ALTERNATOR SPECIFICATIONS				
Air Filter TypeDry ElementAlternator Make & ModelStamford UCI274ECombustion Air Flow (PRP) $8.34 \text{ m}^3$ /minNumber of Poles4Combustion Air Flow (ESP) $8.94 \text{ m}^3$ /minNumber of Winding Leads12Radiator Air Flow162 m^3/minType of BearingSingleCOOLING SYSTEMInsulation Class / Temp RiseH / HTotal Coolant Capacity $9.1 \text{ L} / 2.4 \text{ US gal}$ Ingress Protection RatingIP 23Radiator Fan Load10 kWExcitation SystemSelf ExcitedHeat Radiation to Room (PRP)15 KwAVR ModelStamford - AS 440Heat Radiation to Room (ESP)16 kWOverspeed2250 r.p.mOil Filter TypeSpin on full flow filterVoltage Regulation $\pm 1.0 \%$ Oil Pan14.3 L / 3.78 US gal.Radio InterfaceStandard EN61000-6-2:200	Battery and Charger Alternator		12 VDC, 55Amp	Rated Output (Prime)	Rated Output (Prime) <sup>(1)</sup>		140.0 kVA	
Combustion Air Flow (PRP)   8.34 m³/min     Combustion Air Flow (ESP)   8.94 m³/min     Radiator Air Flow   162 m³/min     Radiator Air Flow   162 m³/min     COOLING SYSTEM   Insulation Class / Temp Rise     Total Coolant Capacity   9.1 L / 2.4 US gal     Water Pump Type   Centrifugal Eng-Driven     Radiator Fan Load   10 kW     Heat Radiation to Room (PRP)   15 Kw     Heat Radiation to Room (ESP)   16 kW     LUBRICATION SYSTEM   Overspeed     Oil Filter Type   Spin on full flow filter     Total Oil Capacity   16.4 L / 4.33 US gal.     Oil Pan   14.3 L / 3.78 US gal.	AIR SYSTEM		Rated Output (Stand	Rated Output (Stand by) <sup>(2)</sup>		150 kVA		
Combustion Air Flow (ESP)   8.94 m³/min     Radiator Air Flow   162 m³/min     Radiator Air Flow   162 m³/min     Type of Bearing   Single     COOLING SYSTEM   Insulation Class / Temp Rise   H / H     Total Coolant Capacity   9.1 L / 2.4 US gal   Efficiency   91.4%     Water Pump Type   Centrifugal Eng-Driven   Ingress Protection Rating   IP 23     Radiator Fan Load   10 kW   Excitation System   Self Excited     Heat Radiation to Room (PRP)   15 Kw   AVR Model   Stamford - AS 440     Heat Radiation to Room (ESP)   16 kW   Overspeed   2250 r.p.m     Oil Filter Type   Spin on full flow filter   Voltage Regulation   t 1.0 %     No load <1.5%	Air Filter Type		Dry Element	Alternator Make & Mo	Alternator Make & Model		Stamford UCI274E	
Radiator Air Flow   162 m³/min     Type of Bearing   Single     COOLING SYSTEM   Insulation Class / Temp Rise   H / H     Total Coolant Capacity   9.1 L / 2.4 US gal   Insulation Class / Temp Rise   H / H     Water Pump Type   Centrifugal Eng-Driven   Ingress Protection Rating   IP 23     Radiator Fan Load   10 kW   Excitation System   Self Excited     Heat Radiation to Room (PRP)   15 Kw   AVR Model   Stamford - AS 440     Heat Radiation to Room (ESP)   16 kW   Overspeed   2250 r.p.m     Oil Filter Type   Spin on full flow filter   Voltage Regulation   ± 1.0 %     Total Oil Capacity   16.4 L / 4.33 US gal.   Wafeform distortion   No load <1.5% Linear load <5%     Oil Pan   14.3 L / 3.78 US gal.   Radio Interface   Standard EN61000-6-2:200	Combustion Air Flow	Combustion Air Flow (PRP)		Number of Poles	Number of Poles		4	
OOLING SYSTEM     Total Coolant Capacity   9.1 L / 2.4 US gal     Total Coolant Capacity   9.1 L / 2.4 US gal     Water Pump Type   Centrifugal Eng-Driven     Radiator Fan Load   10 kW     Heat Radiation to Room (PRP)   15 Kw     Heat Radiation to Room (ESP)   16 kW     LUBRICATION SYSTEM   Overspeed     Oil Filter Type   Spin on full flow filter     Total Oil Capacity   16.4 L / 4.33 US gal.     Oil Pan   14.3 L / 3.78 US gal.	Combustion Air Flow	Combustion Air Flow (ESP)		Number of Winding L	Number of Winding Leads 1			
Total Coolant Capacity9.1 L / 2.4 US galEfficiency91.4%Water Pump TypeCentrifugal Eng-DrivenIngress Protection RatingIP 23Radiator Fan Load10 kWExcitation SystemSelf ExcitedHeat Radiation to Room (PRP)15 KwAVR ModelStamford - AS 440Heat Radiation to Room (ESP)16 kWALTERNATOR OPERATING DATAOil Filter TypeSpin on full flow filterVoltage Regulation± 1.0 %Total Oil Capacity16.4 L / 4.33 US gal.Wafeform distortionNo load <1.5% Linear load <5%	Radiator Air Flow		162 m <sup>3</sup> /min	Type of Bearing	Type of Bearing		Single	
Water Pump Type   Centrifugal Eng-Driven   Ingress Protection Rating   IP 23     Radiator Fan Load   10 kW   Excitation System   Self Excited     Heat Radiation to Room (PRP)   15 Kw   AVR Model   Stamford - AS 440     Heat Radiation to Room (ESP)   16 kW   ALTERNATOR OPERATING DATA     Oil Filter Type   Spin on full flow filter   Voltage Regulation   ± 1.0 %     Total Oil Capacity   16.4 L / 4.33 US gal.   Wafeform distortion   No load <1.5% Linear load <5%	COOLING SYSTEM	1		Insulation Class / Tem	Insulation Class / Temp Rise		Н/Н	
Radiator Fan Load10 kWExcitation SystemSelf ExcitedHeat Radiation to Room (PRP)15 KwAVR ModelStamford - AS 440Heat Radiation to Room (ESP)16 kWALTERNATOR OPERATING DATAUBRICATION SYSTEMOverspeed2250 r.p.mOil Filter TypeSpin on full flow filterVoltage Regulation± 1.0 %Total Oil Capacity16.4 L / 4.33 US gal.Wafeform distortionNo load <1.5% Linear load <5%	Total Coolant Capad	city	9.1 L / 2.4 US gal	Efficiency	Efficiency		91.4%	
Heat Radiation to Room (PRP)15 KwAVR ModelStamford - AS 440Heat Radiation to Room (ESP)16 kWALTERNATOR OPERATING DATALUBRICATION SYSTEMOverspeed2250 r.p.mOil Filter TypeSpin on full flow filterVoltage Regulation± 1.0 %Total Oil Capacity16.4 L / 4.33 US gal.Wafeform distortionNo load <1.5% Linear load <5%	Water Pump Type		Centrifugal Eng-Driven	Ingress Protection Ra	Ingress Protection Rating IP 23			
Heat Radiation to Room (ESP)   16 kW     LUBRICATION SYSTEM   Overspeed   2250 r.p.m     Oil Filter Type   Spin on full flow filter   Voltage Regulation   ± 1.0 %     Total Oil Capacity   16.4 L / 4.33 US gal.   Wafeform distortion   No load <1.5% Linear load <5%     Oil Pan   14.3 L / 3.78 US gal.   Radio Interface   Standard EN61000-6-2:200	Radiator Fan Load		10 kW	Excitation System	Excitation System		Self Excited	
LUBRICATION SYSTEMOil Filter TypeSpin on full flow filterOil Capacity16.4 L / 4.33 US gal.Oil Pan14.3 L / 3.78 US gal.	Heat Radiation to Ro	om (PRP)	15 Kw	AVR Model	AVR Model Stamfor		rd - AS 440	
Oil Filter TypeSpin on full flow filterVoltage Regulation± 1.0 %Total Oil Capacity16.4 L / 4.33 US gal.Wafeform distortionNo load <1.5% Linear load <5%	Heat Radiation to Room (ESP) 16 kW		ALTERNATOR OPE	RATING	DATA			
Total Oil Capacity16.4 L / 4.33 US gal.Wafeform distortionNo load <1.5% Linear load <5%Oil Pan14.3 L / 3.78 US gal.Radio InterfaceStandard EN61000-6-2:200	LUBRICATION SYS	STEM		Overspeed		2250 r.p	.m	
Total OII Capacity16.4 L / 4.33 US gal.Waterorm distortionLinear load <5%Oil Pan14.3 L / 3.78 US gal.Radio InterfaceStandard EN61000-6-2:200	Oil Filter Type	Oil Filter Type Spin		Voltage Regulation	Voltage Regulation		± 1.0 %	
14.5 L / 5.76 00 gai.	Total Oil Capacity	·	16.4 L / 4.33 US gal.	Wafeform distortion	Wafeform distortion			
	Oil Pan		14.3 L / 3.78 US gal.	Radio Interface	Radio Interface Standa		rd EN61000-6-2:2001	
Oil TypeAPI CH4/Cl4; SAE 15W-40Cooling Air Flow0.514 m³/sec	Oil Type	API CH4	/CI4; SAE 15W-40	Cooling Air Flow	Cooling Air Flow		<sup>3</sup> /sec	

<sup>(1)</sup> **PRIME POWER RATING (PRP)**: PRP is defined as the maximum power which a Generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year. The permissible average power output over 24 hours shall not exceed 70% of PRP unless otherwise agreed by RIC engine manufacturer. An overload capability of 10% of 100% of the prime rated electrical power is permitted for emergency use for a period of 1 hour within 12 hours of operation

(2) **EMERGENCY STANDBY POWER RATING (ESP):** ESP is defined as the maximum power available during a variable electrical power sequence, under the stated operation condition, for which a generating set is capable of delivering power in the event of a utility power outage or under test condition for up to 200 Hours of operation per year. The permissible average output over 24 hour of operation shall not exceed 70 % of the ESP power rating noting that no over load is permitted.

ISO



# PI 150C



Rev-1

## Industrial Generating Set

CONTROL	LER SPECIFICATIONS

Controller Make & N	DeepSea 4520				
Operation Mode	MRS / AMF (optional)				
Display	-lit LCD (128x64) pixles				
Ingress Protection F	IP65				
Binary Inputs/Outpu	4 / 4				
Analog Inputs	3				
Measurement	Vac, A, Hz, kVA, kW, Vdc				
Event Log	Alarms log, Hrs log				
Communication	USB				

ENCLOSURE SPECIFICATIONS				
Enclosure Type Acousti		c & Weather Proof		
Anticorrosive Protection				
Polyester Powder Coated Galvanized Sheet				
Ingress Protection F	IP22			
Lifting ISO Star		idard Lifting		
Emergency External E		mergency Push Button		
Canopy RAL Color	RAL 2000			
Baseframe RAL Col	RAL 9011			
Noise Pressure leve	77 dB(A)			

### **GENSET DIMENSIONS & WEIGHT**

GENSET TYPE	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg)	Wet Weight (kg)
OPEN	2550	1260	1900	296	1750	1800
CLOSE	3894	1355	2208	543	2310	2460

Note: The following dimensions are for preliminary guidance. For more detailed and accurate dimensions, please refer to the General Arrangement Drawing (GAD).

### STANDARD MECHANICAL FEATURES

Genset design provides a low noise level with an optimized performance of the ventilation and exhaust systems at 50 °C ambient temperature.

Robust structure design of Enclosure and Baseframe.

Hevy duty lifting lugs.

Multi doors for easy access & maintenance.

Ingress Protection Rating according to BS EN 60529.

Heavy Duty Baseframe with built-in tank & forklift pockets.

Residential Grade Muffler with rain cap.

#### **OPTIONAL FEATURES**

Advanced Controllers are available on request.

4 poles manual / Motorized Circuit breaker

Jacket water pre-heater

Static Battery Charger

Critical grade muffler

Fuel Filter / Water seperator Fuel Filter

Remote Annunciator

#### Application

Infrastructure, Industrial, Residential, Telecom, Defence, Mining, Agriculture,

Address: 24b St., Community 365 Al Quoz Ind. 2, Dubai, UAE | Tel: +971 4 338 4033 | Fax: +971 4 338 3997



STANDARD ELECTRICAL FEATURES

An advance Control system is designed to provide a comperhensive protection and to monitor the parameters of generating set.

MCCB power circuit breaker.

Battery with charging alternator, cables, and tray.

Sealed harness & high resistant electrical connections.

Fast and accurate protection response.

Generating Set remote start function.

Numeric display with LED. Various languages capable.

