

PI 165Y

Industrial Generating Set



MODEL	rpm / Hz	VOLTAGE	PRIME ⁽¹)	STANDBY ⁽²⁾
PI165Y	1500 / 50	400 /230 V	150kVA / 120k		162.5kVA / 130kWe
ull rated power avai eam.	lable upto 100 meter e	elevation at ambient of 27degC,	for other temperature and alti	tude limits plea	ase consult application
ENGINE SPEC	IFICATIONS		FUEL SYSTEM		
Rated Output (PRP) ⁽¹⁾		138 kW _m	Fuel Filter: Split element fuel filte		r
Rated Output (ESP) (2)		152 kW _m	Recommended Fuel		Class A2 Diesel
Engine Make & Model		Yuchai YC6B210L-D20	Fuel Consumption Standby		39.0 L/hr (10.3 US gal/
No. of Cylinders		6 Vertical In-line	Fuel Consumption 100% PRP		34.9 L/hr (9.22 US gal/h
Cycle		4 Strokes	Fuel Consumption 75% PRP		25.5 L/hr (6.7 US gal/h
Aspiration		Turbocharged, air-air intercooled	air Fuel Consumption 50% PRP		17.2 L/hr (4.54 US gal/h
Cooling Metho	d	Water			
Governing Type		Electronic	Muffler Type		Residential grade
Governing Class		G2 - ISO 8528 Part 1	Max. Back Pressure		10 kPa
Compression F	Ratio	17.5:1	Exhaust Gas Flow (PRP/ESP)		24.5 / 26.8 m ³ /mir
Displacement		6.87 L	Exhaust Gas Temperature(PRP/ESP)		475 ⁰ C/494 ⁰ C
BorexStroke (mm)		108 x 125	ALTERNATOR SPECIFICATIO		IONS
Battery and Cha	arger Alternator	12 VDC, 90 Amp	Rated Output (Prime) ⁽¹⁾		160 kVA /150kVA
AIR SYSTEM			Rated Output (Standby) ⁽²⁾		175 kVA /165kVA
Air Filter Type		Dry Element	Alternator Make & Model		Stamford UCI274F / LeroySomer TAL-A44-J
Combustion Air Flow (PRP)		10.6 m ³ /min	Number of Poles		4
Combustion Ai	r Flow (ESP)	11.5 m ³ /min	Number of Winding Leads		12 / 6 or 12
Radiator Air Flow		162 m³/min	Type of Bearing		Single
COOLING SYSTEM			Insulation Class / Temp Rise		H/H
Total Coolant (Capacity (L)	45 L (11.9 US gal)	Efficiency @ Rated Voltage		92.3% / 91.4%
Water Pump Type		Centrifugal Eng-Driven	Ingress Protection Rating		IP 23
Radiator Fan Load		5 kW	Excitation System		Self Excited
Heat Radiation to Room (PRP)		15 kW	AVR Model AS440 /		R120
Heat Radiation to Room (ESP)		16 kW	ALTERNATOR OPERATING DATA		DATA
LUBRICATION SYSTEM			Overspeed		2250 r.p.m
Oil Filter Type Spin		on full flow filter	Voltage Regulation		± 1.0 %
Total Oil Capacity		17 L (4.5 US gal)	Waveform distortion		NO LOAD (< 1.5% / <3.5%) NON-DISTORTINO BALANCED LINEAR LOAI < 5.0%
Oil Pan		15 L(3.96 US gal)	Radio Intertace		00-6-2 & BS EN 61000-6- 5G, VDE 0875N
Oil Type API CH4/CI		I; SAE 15W-40	Cooling Air Flow		0.514 m³/sec / 0.25 m³/sec

⁽¹⁾ **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.





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POWERED BY



CONTROLLER SPECIFICATIONS				
Controller Make & N	DeepSea 4520 MKII			
Operation Mode	Autostart/Manual/AMF			
Display Graphic Back		-lit LCD		
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

Acoustic & Weather Proof Enclosure Type Anticorrosive Protection Polyester Powder Coated Galvanized Sheet Ingress Protection Rating IP22 Lifting ISO Standard Lifting Emergency External Emergency Push Botton Canopy RAL Color RAL 2000 Baseframe RAL Color RAL 9011 Noise Pressure level @ 7m 78 dB(A)

STANDARD ELECTRICAL FEATURES

Battery with charging alternator, cables, and tray.

Fast and accurate protection response.

Generating Set remote start function.

Sealed harness & high resistant electrical connections.

Numeric display with LED. Various languages capable.

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PRECISION INDUSTRIES

An advance Control system is designed to provide a

comperhensive protection and to monitor the parameters of

GENSET DIMENSIONS & WEIGHT

GENSET TYPE	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg) Appx	Wet Weight (kg) Appx
OPEN	2250	1340	1565	325	1900	2000
CLOSE	3730	1125	1865	400	2380	2480

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

generating set.

MCCB power circuit breaker.

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

Pre heating system

Static Battery Charger

Critical grade muffler

Electronic governor

Remote Annunciator

Application

Infrastructure, Industrial , Residential , Telecom, Defense , Mining , Aggriculture

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