



MODEL	rpm / Hz	VOLTAGE	PRIME <sup>(1)</sup>	STANDBY <sup>(2)</sup>
PI 3125C / PI 3438C	1800 / 60	480 / 277	3125 kVA / 2500 kW <sub>e</sub>	3438 kVA / 2750 kW <sub>e</sub>

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

Rated Output (PRP) <sup>(1)</sup>	2737 kW <sub>m</sub>
Rated Output (ESP) <sup>(2)</sup>	3028 kW <sub>m</sub>
Engine Make & Model	Cummins QSK78-G8
No. of Cylinders	18 Cylinder, Vee Type
Cycle	4 Strokes
Aspiration	Turbocharged and Aftercooled
Cooling Method	Water
Governing Type	Electronic
Governing Class	G2 - ISO 8528 Part 1
Compression Ratio	15.5 : 1.0
Displacement	77.6 L / 4735 in <sup>3</sup>
Bore/Stroke (mm / in)	(170/190) / (6.69/7.48)
Electrical Starting System	24 VDC starter motor

### AIR SYSTEM

Air Filter Type	Dry Element
Combustion Air Flow (PRP)	225.36 m <sup>3</sup> /min
Combustion Air Flow (ESP)	236.58 m <sup>3</sup> /min
Radiator Air Flow	TBD

### COOLING SYSTEM

Total Coolant Capacity	166.6 L / 176 US qts
Water Pump Type	Centrifugal Eng-Driven
Radiator Fan Load	TBD
Heat Radiation to Room (PRP)	255 Kw
Heat Radiation to Room (ESP)	282 kW

### LUBRICATION SYSTEM

Oil Filter Type	Spin on full flow filter
Total Oil Capacity	465.0 L / 123.0 US gal.
Oil Pan	412.6 L / 109.0 US gal.
Oil Type	API CH4/CI4; SAE 15W-40

Fuel Filter: Spin on full flow filter with water separator

Recommended Fuel	Class A2 Diesel
Fuel Consumption Standby	701.0 L/hr / 185.3 US gal/hr
Fuel Consumption 100% PRP	634.0 L/hr / 167.6 US gal/hr
Fuel Consumption 75% PRP	500.0 L/hr / 132.1 US gal/hr
Fuel Consumption 50% PRP	352.0 L/hr / 93.0 US gal/hr

### EXHAUST SYSTEM

Muffler Type	Residential Grade
Max. Back Pressure	7.0 kPa
Exhaust Gas Flow (PRP/ESP)	517.14 / 555 m <sup>3</sup> /min
Exhaust Gas Temperature (PRP/ESP)	435 / 452 °C

### ALTERNATOR SPECIFICATIONS

Rated Output (Prime) <sup>(1)</sup>	3350.0 kVA
Rated Output (Stand by) <sup>(2)</sup>	3685.0 kVA
Alternator Make & Model	Stamford LV 804 S
Number of Poles	4
Number of Winding Leads	6
Type of Bearing	Single
Insulation Class / Temp Rise	H / H
Efficiency	95.9%
Ingress Protection Rating	IP 23
Excitation System	Separately Excited by P.M.G
AVR Model	Stamford - MA330

### ALTERNATOR OPERATING DATA

Overspeed	2250 r.p.m
Voltage Regulation	± 0.5 %
Waveform distortion	No load <1.5% Linear load <3%
Radio Interface	Standard EN61000-6-2:2001
Cooling Air Flow	3.7 m <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

<sup>(2)</sup> **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.



### CONTROLLER SPECIFICATIONS

Controller Make & Model	DeepSea 7320 MKII
Operation Mode	Auto Main Failure (AMF)
Display	Graphic Back-lit LCD (128x64) pixels
Ingress Protection Rating	IP65
Binary Inputs/Outputs	8 / 6
Analog Inputs	6
Measurement	Vac, A, Hz, kVA, kVAR, kW, kWh, Vdc
Event Log	Alarms log, Hrs log
Communication	USB, RS232, RS485

### ENCLOSURE SPECIFICATIONS

Enclosure Type	Acoustic & Weather Proof
Anticorrosive Protection	
Polyester Powder Coated Galvanized Sheet	
Ingress Protection Rating	IP23
Lifting	ISO Standard Lifting
Emergency	External Emergency Push Button
Canopy RAL Color	RAL 2000
Baseframe RAL Color	RAL 9011
Noise Pressure level @ 7m	90 dB(A)

### GENSET DIMENSIONS & WEIGHT

GENSET TYPE	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg)	Wet Weight (kg)
OPEN	7300	2750	3600	-	24000	24100
CLOSE	12000	3600	4780	-	36000	36100

Note: Dimensions are for preliminary guidance, Please refer to GA drawing

### 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.

Heavy 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.

Industrial Grade Muffler with rain cap.

### STANDARD ELECTRICAL FEATURES

An advance Control system is designed to provide a comprehensive 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.

### 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 separator Fuel Filter

Remote Annunciator

### Application

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

