



# Diesel Generator Set X2.5 Series

7.5 - 20 kVA, 6 - 16 kWe Prime  
CPCB IV+ Emission Compliant



## Latest Technology and Unmatched Performance

- The Cummins® X2.5 series rugged engine and world class Stamford alternator powered diesel generator set
- Advanced in-cylinder technology to meet stringent emission norms without any after-treatment device
- Best in class transient response
- High altitude capabilities
- Superior finish and aesthetics
- Compact in size with optimum power to weight ratio

## Environment Friendly Power

- Class defining and technologically advanced engine to meet stringent exhaust emission norms as per the latest MoEF notification
- The Cummins® diesel generator sets are available with the lowest noise levels in its range

## Lowest Operating Cost and Comprehensive Warranty

- Highly reliable and durable product
- Maximum efficiency even at part loads, offering the advantage of lowest operating costs
- 500 Hours/18 months service interval
- Industry acknowledged best-in-class comprehensive warranty on the entire package including rubber components

## Single Source Power Assurance

- All the major components - the engine, alternator, control system and canopy are designed, manufactured, and tested by Cummins India
- Best and largest customer support network in India, capable of providing round-the-clock service and spares support



### Acoustic Enclosure

- Specially designed to meet stringent MoEF/ CPCB norms of 75 dBA@1mtr at 75% load under free field conditions
  - The acoustic enclosure is made CRCA sheets in Munsell green shade and a structural/sheet metal base frame painted in black
  - 11 tank pretreatment process and UV resistant powder coating of all parts to withstand extreme environment
  - High quality noise absorbent and fire-retardant grade acoustic Insulation material (P.U Foam) complying to IS 8183
  - Top lifting for easy handling at customer site
- Designed to have optimum serviceability
  - Air inlet louvers specially designed to operate at rated load
  - 11 tank pretreatment process and UV resistant Powder Coating of all parts to withstand extreme environment
  - Fluid drains for lube oil and fuel
  - External Fuel filling arrangement outside the enclosure

### Technical Data

Generator Set Specification				
Model	CI 7.5D5P	CI 10D5P	CI 15D5P	CI 20D5P
Duty	Prime	Prime	Prime	Prime
Power Rating kVA / kWe	7.5/6	10/8	15/12	20/16
No. of Phases	3 Phase	3 Phase	3 Phase	3Phase
Output Voltage and Frequency (V and Hz)	415 V, 50 Hz	415 V, 50 Hz	415 V, 50 Hz	415 V, 50 Hz
Power Factor	0.8 (lagging)	0.8 (lagging)	0.8 (lagging)	0.8 (lagging)
Current (3 phase/ 1 phase) (A)	10	14	21	28
RPM	1500	1500	1500	1500

Engine Specification				
Make	Cummins®			
Model	X2.5-G5	X2.5-G5	X2.5-G6	X2.5-G6
Required Certified Power for Rated kVA (hp)	16.8	16.8	25.2	25.2
Cooling	Liquid Cooled (EG Compleat 50:50)			
Aspiration	Turbocharged			
No. of cylinders	3, In-line	3, In-line	3, In-line	3, In-line
Bore (mm) x Stroke (mm)	91.4 X 127	91.4 X 127	91.4 X 127	91.4 X 127
Compression ratio	18.5:1	18.5:1	18.5:1	18.5:1
Displacement (litre)	2.5	2.5	2.5	2.5
Fuel	High Speed Diesel	High Speed Diesel	High Speed Diesel	High Speed Diesel
Performance class of generator set	ISO 8528-5 G2	ISO 8528-5 G2	ISO 8528-5 G2	ISO 8528-5 G2
Starting system	12 V DC Electrical	12 V DC Electrical	12 V DC Electrical	12 V DC Electrical
Lube oil specification	CI4+	CI4+	CI4+	CI4+
Lube oil sump capacity, High-Low level (litre)	4 – 3	4 – 3	4 – 3	4 – 3
Total lubrication system capacity (Litre)	8.5	8.5	8.5	8.5
Total coolant capacity (litre)	5.5	5.5	5.5	5.5
Exhaust pipe size (inch)	2	2	2	2
Total wet weight (Engine+Radiator)* (kg)	271	271	271	271
Length X Width X Height (Coolpac) (mm)	718 x 651 x 883	718 x 651 x 883	718 x 651 x 883	718 x 651 x 883
Mean Piston speed (m/s)	6.3	6.3	6.3	6.3
Combustion air intake @100% load (±5%) (cfm)	41.4	41.4	50.2	50.2
Exhaust Temperature (°C)	380	380	500	500

Alternator Specification				
Make	STAMFORD (CGT)	STAMFORD (CGT)	STAMFORD (CGT)	STAMFORD (CGT)
Alternator Frame	S0L1-D	S0L1-H	S0L1-P	S0L2-M
Enclosure	IP23	IP23	IP23	IP23
Voltage regulation (Max.)	±1%	±1%	±1%	±1%
Class of Insulation	H Class	H Class	H Class	H Class
Winding Pitch	2/3	2/3	2/3	2/3
Stator Winding	Double layer lap			
Rotor	Dynamically Balanced			
Waveform distortion/ Total Harmonic Distortion	No load < 1.5 %, Non distorting balanced linear load < 5 %			
Maximum Unbalanced Load across phases*	less than or equal to 25%			
Telephonic Harmonic factor	< 2%			

Rating Definitions	Conformance Standards
<p>Prime Power (PRP): Applicable for supplying power to varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with ISO 8528.</p>	<ul style="list-style-type: none"> <li>• IS/IEC 60034-1</li> <li>• ISO 1460</li> <li>• ISO 8528</li> <li>• ISO 3046</li> <li>• ISO 9001</li> <li>• ISO 13018</li> </ul>

Typical Enclosed Genset Dimensions						
Genset Model	Rating (kVA)	Length (mm)	Width (mm)	Height (mm)	Wet Weight" (kg)	Standard Fuel tank Capacity (litre)
CI 7.5D5P	7.5	2090	875	1150	772	85
CI 10D5P	10	2090	875	1150	780	85
CI 15D5P	15	2190	875	1150	789	90
CI 20D5P	20	2190	875	1150	820	90

" Approximate Weight

Authorised Representative

**Cummins Power Systems Offices**

Bengaluru: **Tel.:** (080) 2325 9161 / 63, 2325 9165 / 67 | **Fax:** (080) 2325 9164  
 Chandigarh: **Tel.:** (0172) 224 0371-73 | **Fax:** (0172) 224 0372  
 Chennai: **Tel.:** (044) 2446 8110 / 2446 8113 | **Fax:** (044) 2491 1120  
 Gurgaon: **Tel.:** (0124) 391 0900-01 | **Fax:** (0124) 391 0916  
 Hyderabad: **Tel.:** (040) 2340 9970 / 2340 9980 | **Fax:** (040) 2340 9990  
 Jaipur: **Tel.:** (0141) 236 4944 | **Fax:** (0141) 403 8794  
 Kolkata: **Tel.:** (033) 2287 8065 / 2287 2481 | **Fax:** (033) 2290 3839  
 Lucknow: **Tel.:** (0522) 230 5049 / 230 5059 | **Fax:** (0522) 230 5035  
 Mohali: **Tel.:** (0172) 224 0371 | 72 / 73 | **Fax:** (0172) 224 0371 / 72 / 73  
 Vadodara: **Tel.:** (0265) 233 0627 / 3053627 | **Fax:** (0265) 234 0623



Visit our Facebook page at :  
Cummins Power Generation India



"Our energy working for you."

Cummins is registered trademarks of Cummins Inc.  
Specifications are subject to change without notice.  
PSBU/CPCB IV+/X2.5/Rev-00/07 2023



**Cummins India Limited  
Power Systems Business**  
 Cummins India Office Campus  
 Tower-A, 8<sup>th</sup> Floor, S. No. 21  
 Balewadi, Pune - 411 045 (India)  
 Email : cpgindia@cummins.com  
 www.cummins.com