



# Diesel Generator Set

## QSB6.7 Series

160 - 250 kVA, 128 - 200 kWe Prime  
CPCB IV+ Emission Compliant



Specification Sheet

### Latest Technology and Unmatched Performance

- The Cummins® QSB6.7 series rugged engine and world class Stamford alternator powered diesel generator set
- Proven technology with common rail electronic fuel system
- Exhaust after-treatment and in-cylinder solution to meet stringent emission norms
- 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
- Either 750 or 500 Hours/ 1 year 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, aftertreatment system, 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 (Rockwool) complying to IS 8183
- Top lifting for easy handling at customer site
- External fuel & DEF filling provision

## Remote monitoring system

- Compact & robust device
- Real time DG status & monitoring
- 4G compatible
- Compatible for 12/24 V DC
- Reports & Notification – Alerts & Warning
- Isolated RS 485 interface
- Device location using triangulation

## Technical Data

### Generator Set Specification

Model	CI 160D5P	CI 180D5P	CI 200D5P	CI 225D5P	CI 250D5P
Duty	Prime	Prime	Prime	Prime	Prime
Power Rating kVA / kW	160/128	180/144	200/160	225/180	250/200
No. of Phases	3 Phase	3 Phase	3 Phase	3 Phase	3 Phase
Output Voltage and Frequency (V and Hz)	415 V, 50 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)	0.8 (lagging)
Current (A)	223	250	278	313	348
RPM	1500	1500	1500	1500	1500

### Engine Specification

Make	Cummins®				
Model	QSB6.7-G21	QSB6.7-G22	QSB6.7-G22	QSB6.7-G23	QSB6.7-G23
Required Power for Rated kVA (hp)	206.8	249.1	249.1	306.9	306.9
Cooling	Liquid Cooled (EG Compleat 50:50)				
DEF	AUS 32 (Premix) as per ISO 22241				
Aspiration	Turbocharged , Intercooled				
No. of cylinders	6, In-line	6, In-line	6, In-line	6, In-line	6, In-line
Bore (mm) x Stroke (mm)	107 X 124	107 X 124	107 X 124	107 X 124	107 X 124
Compression ratio	17.3:1	17.3:1	17.3:1	17.3:1	17.3:1
Displacement (litre)	6.7	6.7	6.7	6.7	6.7
Fuel	High Speed Diesel	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	ISO 8528-5 G2
Starting system	24 V DC Electrical	24 V DC Electrical	24 V DC Electrical	24 V DC Electrical	24 V DC Electrical
Lube oil specification	CK4	CK4	CK4	CK4	CK4
Lube oil sump capacity, High-Low level (litre)	15-19.5	15-19.5	15-19.5	15-19.5	15-19.5
Total lubrication system capacity (litre)	21.5	21.5	21.5	21.5	21.5
Total coolant capacity(litre)	20.3	20.3	20.3	20.3	21.3
Exhaust pipe size (inch)	5	5	5	5	5
Total wet weight (Engine+Radiator)* (kg)	725	751	751	751	844
Length X Width X Height (Coolpac) (mm)	1534 X 980 X 1219	1466 X 858 X 1132	1466 X 858 X 1132	1466 X 858 X 1132	1517 X 1064 X 1451
Mean Piston speed (m/s)	6.2	6.2	6.2	6.2	6.2
Combustion air intake @100% load (±5%) (cfm)	362	436	436	516	516
Exhaust Temperature (°C)	515	521	521	524	524

Alternator Specification					
Make	STAMFORD (CGT)	STAMFORD (CGT)	STAMFORD (CGT)	STAMFORD (CGT)	STAMFORD (CGT)
Alternator Frame	S3L1D-F41	S3L1D-G41	S3L1D-H41	S3L1D-J41	S3L1D-K41
Enclosure	IP 23	IP 23	IP 23	IP 23	IP 23
Voltage regulation (Max.)	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
Class of Insulation	H Class	H Class	H Class	H Class	H Class
Winding Pitch	2/3	2/3	2/3	2/3	2/3
Stator Winding	Double layer concentric				
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)	DEF Tank Capacity (litre)	Standard Fuel tank Capacity (litre)
CI 160D5P	160	4050	1350	1850	3025	60	385
CI 180D5P	180	4050	1350	1850	3055	60	385
CI 200D5P	200	4050	1350	1850	3120	60	385
CI 225D5P	225	4050	1350	1850	3170	60	385
CI 250D5P	250	4050	1350	2000	3180	60	395

"Approximate Weight

Authorised Representative

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