PROPEL
INDENERGY SOLUTIONS

250 kVA & 320 kVA
GENERATOR SETS

POWER ON. ALWAYS.

1 The Diesel Generator Set: The Power House

- In-house packaging
- In-house design & manufacturing of Control Panel, Acoustic Canopy, Base Frame, Silencers and Fuel Tank
- Powder coating with 9-Tank pre-treatment process
- In-house test cell
- Manufactured for ease of servicing & usage

2 The Engine

- Versatile 9 litre inline engine - sourced from Scania, a Volkswagen family company.
- Made for the future, in action today.
- Reliable power, anywhere - any hour.
- Engineered for maximum uptime.
- Less diesel, More kVA
- Exceptional step load handling capability.

3 The AC Generators

- Provided with AREP winding / PMG.
- LAM for sudden block loading, improved recovery time.

4 Diagnostic & Monitoring

- Monitors Engine speed, oil pressure & coolant temperature
- Monitors frequency, voltage, current & power
- Comprehensive engine and alternator protection
- Inbuilt Auto-Mains (Utility), failure control module
- Largest backlit LCD icon display, with alarm indication

5 The Acoustic Enclosures

- Modular RTU Design
- Inbuilt fuel tank duly piped and control panel duly wired
- Twin door system leading to better access to the DG Set, resulting in easy maintenance and maximum uptime
- Special access for radiator cleaning
- Powder coated for weather proof and long lasting finish

CPCB II Compliant

POWERED BY SCANIA

Specifications

DIESEL GENERATOR SET

		PS250DC09	
Model		P 250 DC09	P 320 DC09
Power rating	kVA / kWe	250 / 200	320 / 256
Duty		PRIME	
Power Factor		0.8 lagging	
Output Voltage	Volts	415	
Output Frequency	Hz	50	
No. of phases		3	
Full load Current	Ampere	348	445
RPM		1500	
Overall Dimensions of the genset (l x w x h)	mm	5000 x 1800 x 2200	
Approximate Weight	kg	5200	5600
Acoustic Canopy		Made out of 100 mm steel CRCA sheets, Bottom Lifting, rockwool insulated with residential silencer and specially designed for increased service accessabilty.	

DIESEL ENGINE

Model		DC09 071A 226	DC09 071A 289
No. of Cylinders	Qty	5	
Gross Engine bhp	hp	307.1	392.7
No. of Stroke		4 Stroke	
Bore	mm	130	
Stroke	mm	140	
Displacement	cc	9300	
Compression Ratio		16:01	
Direction of Rotation from Flywheel end		Counter Clock wise	
Reference Standard	REF	ISO 8528-5 G2	
Governing system		Scania engine management system, EMS	
Starting Battery Volts	Volts	24 V	
Engine Cooling System Coolant Capacity	Litres	24	
Cooling Capacity Including Radiator	Litres	38	
Coolant topping-up / draining frequency		7200hrs, Only with the use of Scania Genuine Coolant.Draining at 6000 hrs for others. Both within 5years or whichever is earlier	
Engine Mounted Radiator Fan Power	kW	6	
Fuel System		Scania Unit Injection, PDE	
Filter Type		Paper filter element, 10 micron	
No of filters	qty	1	
Lub Oil system capacity (with filters)	lit	36	
Lube Oil Consumption at 75% Load		0.04	0.05
Lube Oil Change Period	Hours	500 hours	
Lub Oil Pressure Guage		Parameters can be displayed with required shut off system	
Water Temp Guage			
Hourmeter cum r.p.m meter			

AC GENERATOR

Power rating	kVA / kWe	250/200	320/256
Power Factor		0.8 lagging	
No. of phases		3	
Output Frequency	Hz	50	
RPM		1500	
Output Voltage	Volts	415	
Voltage Variation	% RV	5%	
Full load Current (Rated)	Ampere	348	445
Enclosure	IS: 4691	IP 23	
Cooling	IS: 6362	IC 01	
Insulation Class		H	
Excitation Type		Self Exciter and Self regulated Brushless	
Voltage regulation		+/- 0.5% From no load to full load at lagging power factor of 0.1 to 1.0 & speed drop of less than or equal to 4%	
Overload Capacity		1.5 x Rated Full Load Current for 15sec or 1 hr in every 12 hr with 10% overload	
Unbalanced Load Permitted		20 % (Not exceeding Rated FLC in any phase)	

Fuel tank with all internal piping and Standard Control Panel with all internal wiring and cabling provided as a standard scope of supply. For requirement of AMF control panel or synchronisation panels or any special panels, please contact us.

RATING CONDITIONS

- All models are Prime Power rated as per ISO 8528.
- Ratings are at 415 volt, 3 phase, 50 Hz, 0.8 pf at 1500 rpm.
- 10% overload for one hour in every 12 hours permitted in accordance with ISO 3046/1, BS 5514, DIN 6271 for prime rated packages.
- Packages comply to CPCB II exhaust emissions and noise regulations.
- All specifications and dimensions are for referernce purpose and are subject to revisions and improvements.

*Reference condition as per IS 10002, ISO 3046.

PROPEL INDENERGY SOLUTIONS

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