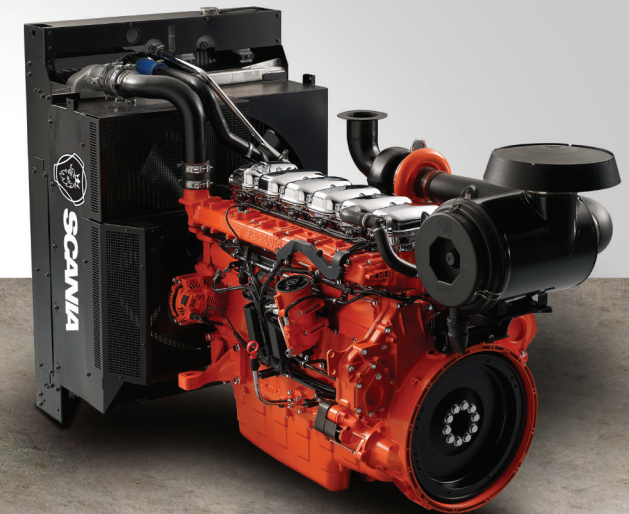




**PROPEL**  
INDENERGY SOLUTIONS

**500 kVA - 600 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 & Fuel Tank
- Powder coating with 9 Tank pre-treatment process
- In-house test cell
- Manufactured for ease of servicing & usage

**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

**2 The Engine**

- Impressive 16 litre V8 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.

**5 For enclosures**

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

**3 The AC Generators**

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



## DIESEL GENERATOR SET

Model		PS500DC16	PS550DC16	PS600DC16
Power rating	kVA / kWe	500/400	550/440	600/480
Duty		PRIME		
Power Factor		0.8 lagging		
Output Voltage	Volts	415		
Output Frequency	Hz	50		
No. of phases		3		
Full load Current	Ampere	695	764	835
RPM		1500		
Overall Dimensions of the genset (l x w x h)	mm	5700 x 2100 x 2400	6000 x 2100 x 2400	6000 x 2100 x 2400
Approximate Weight	kg	7100	7500	7700
Acoustic Canopy		Made out of 100 mm steel CRCA sheets, Bottom Lifting, rockwool insulated with residential silencer and specially designed for increased service accessibility.		

## DIESEL ENGINE

Engine Model		DC16 071A	DC16 071A	DC16 071A
No. of Cylinders	Qty	V8		
No. of Stroke		4 Stroke		
Bore	mm	130		
Stroke	mm	154		
Displacement	Litres	16.4		
Compression Ratio		16.7:1		
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	44		
Cooling Capacity Including Radiator	Litres	70		
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	13		
Fuel System		Scania Unit Injection, PDE		
Filter Type		Paper filter element, 10 micron		
No. of filters	Qty	1		
Lub Oil system capacity (with filters)	Litres	48		
Lube Oil Consumption at 75% Load		0.07	0.08	0.08
Lube Oil Change Period	Hours	500hrs		
Lub Oil Pressure Gauge		Parameters can be displayed with required shut off system		
Water Temp Gauge				
Hourmeter cum r.p.m meter				

# Specifications

## AC GENERATOR

Power rating	kVA / kWe	500/400	550/440	600/480
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	696	765	835
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 reference purpose and are subject to revisions and improvements.

\*Reference condition as per IS 10002, ISO 3046.



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