PROPEL
POWER SYSTEMS

350 kVA - 450 kVA
GAS GENERATOR SETS

1 The Gas 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.

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 fuel, More kVA.
- Exceptional step load handling capability.

3 The AC Generators

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

CPCB II
Compliant

POWERED BY SCANIA

Specifications

GAS GENERATOR SET

Model		P 350 OC16	P 365 OC16	P 380 OC16	P 400 OC16	P 450 OC16
Power rating	kVA / kWe	350 / 280	365 / 292	380 / 304	400 / 320	450 / 360
Duty		PRIME				
Power Factor		0.8 lagging				
Output Voltage	Volts	415				
Output Frequency	Hz	50				
No. of phases		3				
Full load Current	Ampere	487	507	528	556	661
RPM		1500				
Overall Dimensions of the genset (l x w x h)	mm	5700 x 2100 x 2400				
Approximate Weight	kg	7100				
Acoustic Canopy		6 sided, container type, Bottom Lifting, made out of 100 mm steel CRCA sheets, rockwool insulation and residential silencer.				

GAS ENGINE

Engine Model		OC16 071A	OC16 071A	OC16 071A	OC16 071A	OC16 071A
Configuration and No Of Cylinders	Qty	90° V8				
No. of Stroke		4 stroke				
Bore	mm	130				
Stroke	mm	154				
Displacement	Litres	16.4				
Compression Ratio		12.2:1				
Direction of Rotation from Flywheel end		Counter Clock wise				
Pieston Speed @ 1500 rpm	M/S	7.7				
Air Temp @ ISO Condition	°C	25				
CAC Temperature	°C	43		47		50
Exhaust Flow	Kg / Min	28		31		34
Exhaust Temp @ 100% Load	°C	473		476		487
Step Load Performance @ Class G2,Governing	%	28		26		23
FAN Power	kW	20				
Injection System	Type	Zero Pressure Ventury Gas Feed Fuel System				
Governing system		EMS,OCE 1 (BOSCH EGC4 HW)				
Air Consumption	Kg / Min	27		30		32
Reference Standard	REF	ISO 8528-5 G2				
Starting Battery Volts	Volts	24 V				
Cooling Capacity Including Radiator	Lit	68				
Engine Mounted Radiator Fan Power	kW	13				
High Engine Temp Limit- Alarm	°C	98				
High Engine Temp Limit- Stop	°C	105				
Filter Type		Paper filter element, 10 micron				
No. of filters	Qty	1				
Lub Oil system capacity (with filters)	Lit	48				
Lube Oil Consumption	Gms/kWH	<0.2				
Lube Oil Change Period	Hours	500 hours				
Lube Oil Pressure	Bar	3 to 6				
Lub Oil Pressure Guage		Parameters can be displayed with required shut off system				
Water Temp Guage						
Hourmeter cum r.p.m meter						
Heat Rejection To coolant	kW	187				199
Heat Rejection To Exhaust Gas	kW	258				285
Heat Rejection To Charge Air	kW	64				75
Heat Rejection To Surrounding Air	kW	46				75

AC GENERATOR

Power rating	kVA / kWe	350 / 280	365 / 292	380/304	400 / 320	450 / 360
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	487	507	528	556	661
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						

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 27 C Ambient Temp, 100 KBP (750 mm of Hg)Atmospheric Condition and 60% Humidity - As per IS 10002, ISO 3046.

PROPEL POWER SYSTEMS

www.propelsystech.com

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