

APS Diesel Generator with AMF

SGM 3000 PR, SGN 200 PR, SGP 100 PR,
SGP 1250 PR, SGV 500 PR



ABOUT PRODUCT

The APS Diesel Generator with AMF provides a wide range from 100kVA to 3150kVA. The APS Genset using MTU engine-powered generating sets are recognised for reliability. Global technology available in Australia with the most energy-efficient D. G. set in its own rating. The Microprocessor based control panels meet international quality standards. The approach to technology use results in wider maintenance intervals. All Gensets are pre tested at the factory with a PLC test bench. All APS Gensets are designed to meet the latest environmental standards and are approved by CPCB nodal agency.

MAIN FEATURES

Engine:

- Fast load response
- Stable frequency
- Low vibrations and structure borne noise level
- Competitive fuel and lube oil consumption
- High power to weight ratio
- Proven low life cycle cost

D. G. Package:

- Highly optimised and efficient package design
- Excellent performance under most demanding environmental conditions
- Near zero down time for continuous power supply
- Sturdy base frame made from folded sheet metal for increased strength
- Efficient anti-vibration mounts
- Stringent shop floor testing to ensure class-leading, hassle-free performance
- Testing carried out using state-of-the-art PLC based, resistive load bank

Alternator:

- Brushless type, screen protected, self-excited alternator complying to IS 4722/IEC 60034 – 1
- Excellent motor start capability
- Excellent alternator efficiency across the load range
- Compact design with sealed bearings for longer life and lower maintenance
- Optimised engine compatibility



100kVA



300kVA



600kVA



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TECHNICAL SPECIFICATIONS

Model	APSSGP 100 PR	APSGN 200 PR	APSGV 500 PR	APSGP 1250 PR	APSGN 3000 PR
Rating	100 kVA 80 kW	200 kVA 160 kW	500 kVA 400 kW	1250 kVA 1000 kW	3000 kVA 2400 kW
Voltage	415 Volts				
Frequency	50 Hz				
Speed	1500 RPM				
Engine					
Engine Make & Model	PERKINS - 1104C-44TAG2	MHEPL200KVAELEC CPCBII	VOLVO TAD1641G	Perkins-4012-46TAG0A	MTU-20V4000G63L
Base Frame	SGPL				
Frequency	50 Hz				
Fuel Tank Capacity	390 Litres		1000 Liters	990 Liters	
Rated Current	139 Amps	278 Amps	696 Amps	1737 Amps	4170 Amps
No. of Cylinders	4	6	6	12	20
Type of Construction	Inline				Vee
Displacement	4.4 L	7.2 L	16.12 L	45.84 L	95.4 L
Bore / Stroke	105 X 127 mm	105 X 137 m	144 X 165 mm	160 X 190 mm	107 X 210 mm
Gross Engine Power Output	125 BHP	241 BHP	591 BHP	1497 BHP	3473 BHP
Rated Speed	1500 RPM				
Aspiration	Turbocharged				
Governor Type & Class	Elec/Class G2	ECU Controlled	<Class A1	Class A1	Class G3
Fuel System					
Make/Type of Injection System			Delphi E3.18		
Recommended Fuel	HSD				
Fuel Filter Type	Spin on paper element				
Specific Fuel Consumption : L/hr					
75% Load	TBA	37.51	71.66	192.38	426.8
100% Load	TBA	45.02	96.51	248.1	565.61
*Note: Specific gravity of fuel considered - 850 gms/Litre with +3% tolerance					
Cooling System					
Method of Cooling	Radiator				
Qty of Coolant (Engine + Radiator)	12.6 L	25 L	60 L	210 L	205 L
Radiator Fan Power	3.5 kW	11 kW		64 kW	64 kW
Radiator Cooling Airflow	5848 CFM	13200 CFM	10594 CFM	68651 CFM	150000 CFM
Alternator					
Make	Stamford				Leroy Somer
Frame	UCI274V	UCI274H	HCI534D	PI734B	LSC86L2
Power Factor	0.8				
No. of Phase	3				
Frequency	50 Hz				
Rated Voltage	415V ±5%				
Voltage Regulation	±1%			±0.5%	±1%
Excitation System	Self-Excited Self-Regulated Brushless			Separately Excited By PMG	Self-Excited Self-Regulated Brushless
AVR Type	SX460		AS440	MX321	R 450
Induction System					
Air Filter Type	Paper Element	Dry Type			
Air Intake Restriction	50 mbar	23-60 mbar	50 mbar	20-40 mbar	50 mbar
Lubrication System					
Recommended Lube Oil	15W40 API -CI4	15W40APIC4+	15W40 API-CI4	15W40 API-CI4	SAE15W40
Lube Oil Consumption	0.1% Of SFC				
Lube Oil Filter Type	Paper Element	Spin On Cartridge - Type paper element		Paper Element	
Lube Oil System Capacity (With Filter)	8.0 L	20.2 L	48 L	177 L	390 L
Exhaust System					
Silencer Type	Critical-grade			Residential	
Number of Silencers	1		1 No. Dual	1	2
Maximum Allowable Back Pressure	180 mbar	101 mbar	100 mbar	50 mbar	30 mbar
Exhaust Gas Temperature	514 °C	610 °C	446 Deg °C	425 °C	565 °C
Output Ratings					
Generating Set Rating	415V - 50 Hz 100 kVA 80 kW 415V - 50 Hz 200 kVA 160 kW 415V - 50 Hz 500 kVA 400 kW 415V - 50 Hz 1250 kVA 1000 kW 415V - 50 Hz 3000 kVA 2400 kW				
Ratings	0.8 power factor				
Definitions: Prime Rating	This rating is applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power for unlimited number of hours with an average load factor of 80%				
Fuel Consumption Data:	Fuel consumption data with diesel fuel of specific gravity 0.85 and conforming to IS: 1460				
Dimensions (L x W x H mm)	3500 x 1600 x 2110 mm	3500 x 1600 x 2106 mm	5950 x 2000 x 2510 mm	9000 x 3000 x 4740 mm	TBA
Weight (Approx.) Kg	2800 kgs	2546 kgs	8600 kgs	18000 kgs	TBA



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