RATING & DIMENSION

		MODEL			665200	555400		
		MODEL		DDIME	SGE300	SGE400	SGE500	
A C E N E R A		50 HZ	380V	PRIME	300	400	500	
	OUTPUT RATING (KVA)			STANDBY PRIME	330 325	425	550 505	
		60 HZ	440V	STANDBY	357	415	555	
				PRIME	456.6	608.8	761.1	
	RATED CURRENT (A)	50 HZ	380V	STANDBY	502.2	669.7	837.1	
		60 HZ	440V	PRIME	426.5	544.6	662.7	
				STANDBY	468.5	597.1	728.9	
	RATED FREQUENCY /	<u> </u>	50	HZ		1500 RPM		
	RATED SPEED	60 HZ			1800 RPM			
Т	NO. OF POLES	4 POLES						
0	PHASE AND WIRE	3-PHASE - 4-WIRE						
R	POWER FACTOR	0.8 (LAGGING)						
	VOLTAGE REGULATION	0.8 (LAGGING) WHITIN +/- 1.5%						
	EXCITATION	BRUSHLESS, ROTATING EXCITER (WITH AVR)						
	INSULATION	BRUSH			CLASS H			
	INSOLATION	MODEL			DC9 72A	DC13 072A	DC16 43A	
	TYPE OF COMBUSTION CHAMBER					DIRECT INJECTED	DCTOTSA	
	AIR INTAKE SYSTEM				TURBOCHARGED			
					267	365	439	
	OUTPUT RATING (KW)	<u> </u>	1500 RPM (50 HZ)		292	410	439	
	1800 RPM (60 HZ)			292	1500/1800 RPM	430		
Е	RATED SPEED (50/60 HZ, RPM)				130 X 140	130 X 160	107 V 154	
Ν	BORE (MM) X STROKE (MM)			9,3	12.7	127 X 154		
G	PISTON DISPLACEMENT (LT)						15.6 8 V	
I	NO. OF CYLINDERS				5 IN LINE	6 IN LINE EMS - EUI	ð V	
N E	FUEL CONSUMPTION	50.117			56.2			
L			50 HZ		57.4		91.4	
	(L/HR) AT 100% LOAD		60 HZ			76.9		
		LUBRICATION OIL CAPACITY (LT)			23	30	28	
	COOLANT CAPACITY, EXCL. RADIA	ATOR (LT)	0051		20	22 50		
	FUEL TANK CAPACITY (LT)				1000	750		
		SOUNDPROOF TYPE			1000	-	-	
	STARTING MOTOR				24 DC-5.5 KW	24 DC - 6.7 KW		
	CHARGING GENERATOR (V-A)				28-100			
	BATTERY CAPACITY (V-AH)				DC 12 - 150 X 2			
	STARTING SYSTEM				ELECTRIC STARTING MOTOR			
	COOLING SYSTEM				RADIATOR WITH FAN - AIR TO AIR CHARGE AIR COOLER			
	LUBRICATION SYSTEM				FORCED LUBRICATION TROCHOID PUMP			
				MM	3650	3650	3650	
(OPEN TYPE DIMENSION	WID		MM	1170	1180	2150	
		HEIC		MM KG	1950 3000	2150 3500	2150 4000	
		LENG		MM	4200	532		
				MM	1500	160		
SOUNDPROOF TYPE DIMENSION			WIDTH MM 1500 16 HEIGHT MM 2150 2'					
						1		
			GHT	KG	4000	4500	5000	

* Due to our continuous improvement efforts, this specification is subject to change without further notice.

Note :

PRIME OUTPUT RATING :	SUPPLIES ELECTRIC POWER CONTINUOUSLY AT VARIABLE LOAD NO LIMITATION TO THE ANNUAL HOURS OF OPERATION AND CAN SUPPLY 10% OVERLOAD I CONFORMS WITH SAE J816B CONTINUOUS, DIN 6270, BS 6270, BS 5514 OR 649 CONTINUOUS ISO 3046/I CONTINUOUS POWER	
STANDBY OUTPUT RATING :	SUPPLIES ELECTRICITY DURING NORMAL UTILITY POWER FAILURE AT VARIABLE LOAD NO OVERLOAD IS PERMITTED ON THIS RATING CONFORMS WITH SAE J816B INTERMITTENT, DIN 6270, BS 5514 OR 649 ONE HOURS & ISO 3046 / 1 FUEL STOP POWER	
ENGINE OUTPUT REPRESENTS AT ISO	3046, STANDARD CONDITIONS :	
AIR TEMPERATURE :	25C	DEALER
RELATIVE HUMIDITY:	30%	
BAROMETRIC PRESSURE:	750MMHG	

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Scania's engine for power generation are found in operation throughout the world, and they are suitable for prime power as for stand-by power. Their renowed reliability, durability and service friendliness are major assets, especially in prime power applications in remote locations where considerable emphasis is placed on a secure supply of electrical power. Or in leasing units, where the genset is constantly moved around between different operators. "Powered by Scania" certainly makes a makes a major contribution to high total quality irrespective of the application.

A SYSTEM WITH MANY BENEFITS



Scania's 12 and 16 litre engines feature the latest generation engine management system (EMS). this sophisticated electronic system has been developed for tough applications and is designed to withstand harsh conditions, making it an

utterly dependable unit. it offers a variety of functions and benefits: • Control and monitors the injection process to ensure optimum combustion and fuel economy.

Communication via a CAN bus, which reduces wiring requirements and connection points.

 Communicate engine data via SAE protocol J1939 to the vehicle's other systems, such as the transmission, PTO and warning system.

 Integrated diagnostic system with built in fault tracing functions and engine diagnostics.

INDIVIDUAL CYLINDER HEADS SIMPLIFY SERVICE AND REPAIRS

All the engines feature individual cylinder heads, which means that dismantling and reassembly can be carried out by one single technician. This bring many benefits, not least in terms of availability, since parts maintenance is simpler, which in turn ensure that standstill times are the shortest possible.



DUAL OIL FILTRATION SYSTEM



One reason for the engine's good overall economy is Scania's unique oil filtration system, the combination of a full flow paper filter which take care of the larger particle and a centrifugal cleaner that removes the smaller particles, result in maxmum oil filtration and minimum wear.



on for the engine's good

THE UNIQUE SAVER RING



Scania diesels are clean. The unique Saver Ring, seated at top of the cylinder liner, removes all deposits from the piston top land on piston's upward stroke. Thereby permitting high and continuous load without any risk of coke built up lishing. The saver Ping and

and harmful bore polishing. The saver Ring and the keystone type top piston are complementary in keeping the lube oil consumption as low 0.3g/kWH. Few, if any, other engine can match that.

UNIT INJECTOR

The electronic unit injectors (UI) fitted to our engine's fuel systems provide a very high injection pressure, at the same time as injection quantity and timing are controlled with exceptional precision, from cold start to idling and throughout the entire power range. The result is higher power output, lower fuel consumption and fewer emissions, along with less exhaust smoke.





STRIVE TO PROVIDE OUR CUSTOMERS AND THEIR POWER GENERATION NEEDS WITH MARK OF EXCELLENCE

SCANGEN generating sets are widely used in numerous applications and situations. These include national defense, civil aviation, irrigation, railway, mining, telecomunication system and light industry.

SCANGEN generating sets have an excellent service performance, very long life cycle period and provide the most reliable power to customers, either as standby power supply or in prime power duty. It meets all the demanding requirements of the customers.











Long Operation life Good Investment Value Low Use Cost High Operating Efficiency Good Range Of Power Rating & Specification



SCANIA diesel engine, four stroke, direct injection (DC9) and electronic unit injection (DC-12 and DC-16), turbocharged, fan and radiator cooling system, rated speed 1500 rpm, 24 VDC starter system, compact construction, excellent overload capacity, speed adjusment precision accuracy, complete air/diesel oil/ lube oil filter, low exhaust emission standard.

TAIYO AC alternator, brushless, self field excitation, automatic voltage regulation, single bearing, insulation F class, IP 21 protection grade, conforms to UK BS5000 part 3 standard, radio interference suppression meets BS800, VDE0875-N and GB2820 institute, designed for continuous operation.

Complete generator set baseskid is robustly built. It is optimally designed to handle both static and dynamic weight of the genset. All wight bearing members are strengthened to reduce local stress build up. The set are carefully aligned and are resiliently mounted to reduce transmission of structure born noise.

SCANGEN generator set conforms to ISO3046, IEC34, ISO8528, DIN6280, BS4999, VDE0875, DIN6271, BS5000, SAEJ1349, VDE0530, GE4712 international standard. Diesel engine's exhaust standard conforms to ISO08178-4 international standard and environmental protection exhaust standard.

OPEN TYPE



SILENT TYPE

The Controlling module is designed to provide total control for stand alone unit applications in isolated or mains parallel operations.

CONTROLLING

MODULE

The ATS and controlling module for multiple unit applications also available as option.



No	Description
1	Voltmeter 0-500V
2	Frequency meter 45-65 Hz
3	Ammeter 0-800
4	Autostart control unit
5	Voltmeter Selector switch
6	Hour Run Meter
7	Ammeter Selector Switch
8	Temperature gauge
9	DC Voltmeter
10	Lube Oil Pressure Gauge
11	Buzzer
12	Emergency Stop
13	MCCB ABB

	Description	Scope of Standard	Supply optiona
Basic engine	1		
Combustion air system			
Electrical starting sys	1		
Fuel system			
Lube oil system	1		
Cooling equipment	Set mounted radiator	1	
cooling equipment	Remote radiator complete with fan & motor		1
Speed governor	Electric fuel injection (EMS) (SGE300 - 500)	×	
Electrical control	Autostart	1	
and	AMF	· · · · ·	
Monitoring system	ATS		····
Alternator		 ✓ 	
Base frame		 	
Exhaust system c/w	Industrial [15db (A)]	V	
bellow, bolt & nuts,	Residential [25db (A)]		1
ounter flange, gasket tandard Daily Tank 8 to 12 hours operation			
Engine tools	·		
Anti condensation heater for generator			
Equipment for parallel operation (CT droop kit)			1
Automatic electric pre-heating device			1
Anti vibration mounting + metal plate cover			
Water separation filter			
Standard documentatio	n	· ·	



RENTAL TYPE



SCOPE OF SUPPLY