
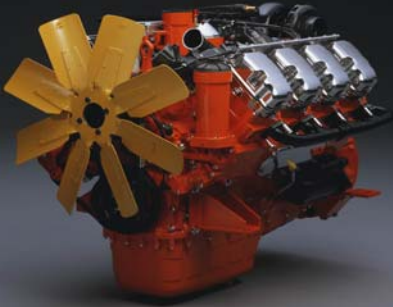


SCANGEN SGE500 (50Hz) / SGE500 (60Hz)			Engine Specification : DC16 43A (10-22)			
<b>Engine - General Data</b> 						
Piston displacement	lit	15.6				
Number of cylinder and configuration		8 V				
Bore x Stroke	mm	127 x 154				
Injection System		Electronic unit injection				
Lub Oil Capacity	grade lit	At least: ACEA E3, E4 or E5 35				
Starting System	V	24V, Electric				
Charging Generator	V, A	28V, 80A				
Fuel		Diesel fuel				
Engine cooling system		Water				
Compression ratio		18:1				
<b>Engine - Specifications :</b>						
			Prime	Standby	Prime	Standby
Gross power		kWm	439	481	438	480
Specific fuel consumption	full load	g/kWh	192	195	193	198
Heat rejection	to cooling water	kW	168	187	167	186
	to exhaust gas		302	338	298	339
	to radiation		37	41	34	38
Air consumption		kg/min	35	39	42	45
- max. pressure loss		mmWc	500		500	
Exhaust flow		kg/min	36	41	43	47
- max. back pressure		mmWc	500		500	
Coolant pump flow		lit/min	368		443	
Coolant fan	type		pusher		pusher	
	diameter	mm	965		965	
	power	kW	13		12	
	speed ratio	crank : fan	1 : 1		1 : 0.8	
	free air flow	m3/s	9.8		8.5	
Radiator	front area	m2	1.24		1.24	
Charge Air Cooling			air - air			
"Air-on" Temperature		°C	50		50	
- max. pressure reserve		mmWc	40		35	
<b>Alternator / Genset - Specifications :</b>						
Insulation	Class		H / F			
Excitation			brushless, rotating exciter (with AVR)			
Number of poles			4			
Power factor			0.8 (lagging)			
Volatge regualtion	%		Within 1.5			
Phase and wire			3-phase, 4-wires			

#### RATING DEFINITIONS

**PRIME POWER:** These rating are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation to the annual hours of operation and this mode can supply 10% overload power for 1 hour in 12 hours. Maximum 75% load factor.

**STANDBY POWER:** These rating are applicable for supplying continuous electrical power (at variable load) in the event of utility power failure. No overload is permitted on these ratings. Maximum 85% load factor is peak continuous rated (as defined in ISO-8528-3) at 27 deg C

**NOTE\*:** "Air-on" refers to the real average temperature of cooling air that reaches the cooling system