
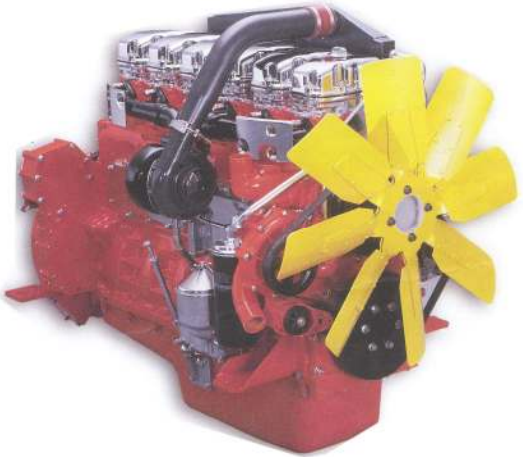


SCANGEN SGE450 (50Hz)			Engine Specification : DC12 60A (10-20A)		
<b>Engine - General Data</b> 					
Piston displacement	lit	11.7			
Number of cylinder and configuration		6 in-line			
Bore x Stroke	mm	127 x 154			
Injection System		Electronic unit injection			
Lub Oil Capacity	grade lit	At least: ACEA E3, E4 or E5 28			
Starting System	V	24V, Electric			
Charging Generator	V, A	28V, 65A			
Fuel		Diesel fuel			
Engine cooling system		Water			
Compression ratio		16:1			
<b>Engine - Specifications :</b>					50Hz, 1500 rpm
			Prime	Standby	
Gross power		kWm	399	437	
Specific fuel consumption	full load	g/kWh	194	197	
Heat rejection	to cooling water	kW	154	170	
	to exhaust gas		263	292	
	to radiation		35	39	
Air consumption		kg/min	30	31	
- max. pressure loss		mmWc	500	500	
Exhaust flow		kg/min	31	33	
- max. back pressure		mmWc	500	500	
Coolant pump flow		dm <sup>3</sup> /min	300	300	
Coolant fan	type		pusher	pusher	
	diameter	mm	912	912	
	power	kW	11	11	
	speed ratio	crank : fan	1 : 1	1 : 1	
	free air flow	m <sup>3</sup> /s	8.0	8.0	
Radiator	front area	m <sup>2</sup>	1.3	1.3	
Charge Air Cooling			air - air	air - air	
"Air-on" Temperature		°C	50	50	
- max. pressure reserve		mmWc	30	20	
<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

\*\* Due to continuous product improvements, specification are subjected to change